



Debra A. Gordon, Ph.D.
 Application No. 09/866,570
 Filed: May 25, 2001
 Our Ref. No. 4630-59094
 For: NUCLEIC ACID MOLECULES ENCODING 10-
 DEACETYLBACCATIN III O ACETYL TRANSFERASE AND
 RELATED PRODUCTS
 Inventor(s): Croteau *et al.*
 Date of Deposit: September 8, 2003

RECEIVED
 SEP 15 2003
 TECH CENTER 1600/2900

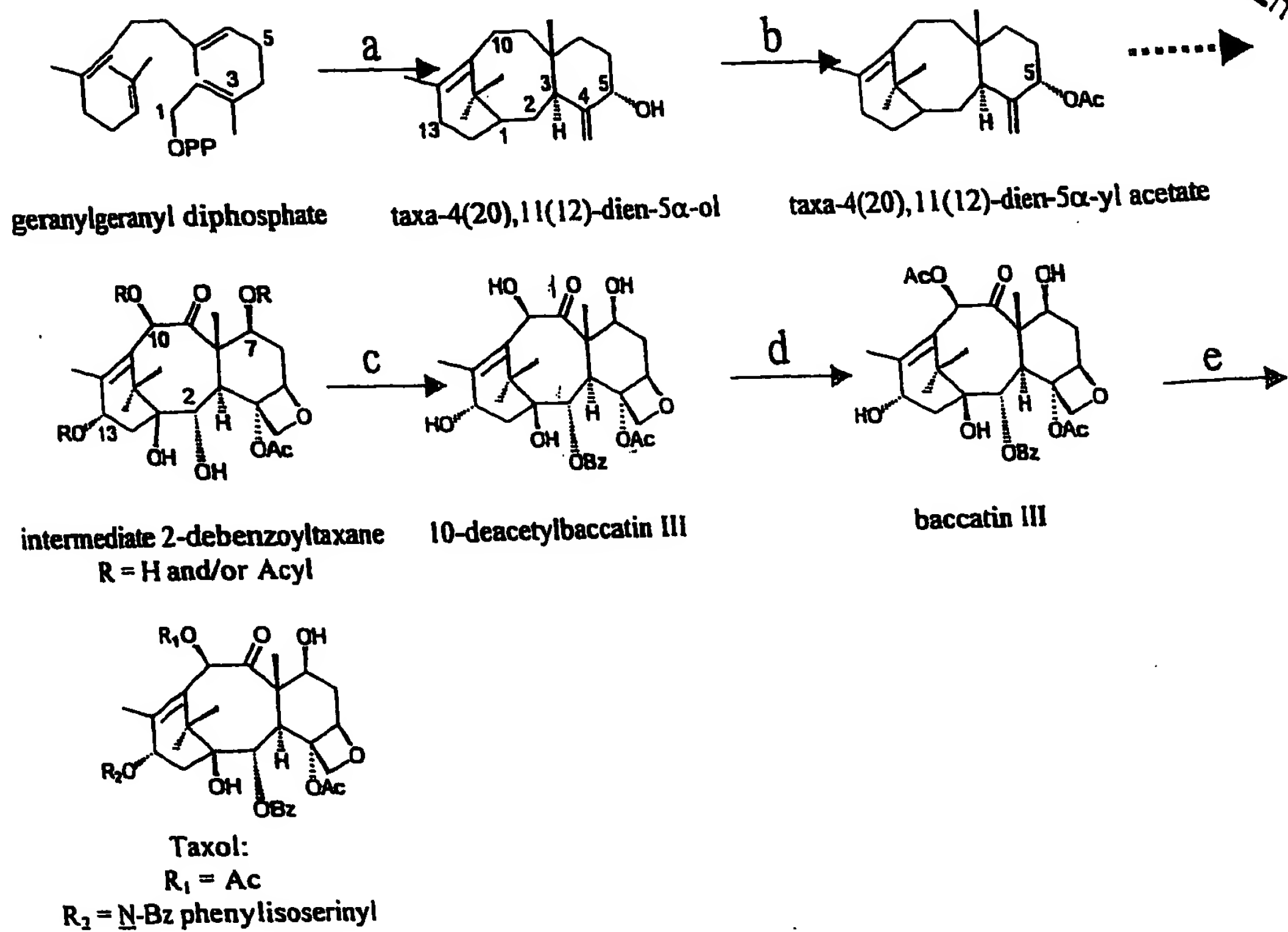


FIG. 1



Debra A. Gordon, Ph.D.
Application No. 09/866,570
Filed: May 25, 2001
Our Ref. No. 4630-59094
For: NUCLEIC ACID MOLECULES ENCODING 10-
DEACETYLBACCATIN III O ACETYL TRANSFERASE AND
RELATED PRODUCTS
Inventor(s): Croteau *et al.*
Date of Deposit: September 8, 2003

RECEIVED
SEP 15 2003
TECH CENTER 1600/2900

Tryptic Peptide Fragment

Peptide Sequence

SEQ ID NO: 29	TTLQLSSIDNLPGVR
SEQ ID NO: 30	ILVYYPPFAGR
SEQ ID NO: 31	FTCGGFVVGVSF
SEQ ID NO: 32	KGLAEIARGEVK
SEQ ID NO: 33	NLPNDTNPSSGYYGN

FIG. 2



Debra A. Gordon, Ph.D.
Application No. 09/866,570
Filed: May 25, 2001
Our Ref. No. 4630-59094
For: NUCLEIC ACID MOLECULES ENCODING 10-
DEACETYLBACCATIN III O ACETYL TRANSFERASE AND
RELATED PRODUCTS
Inventor(s): Croteau *et al.*
Date of Deposit: September 8, 2003

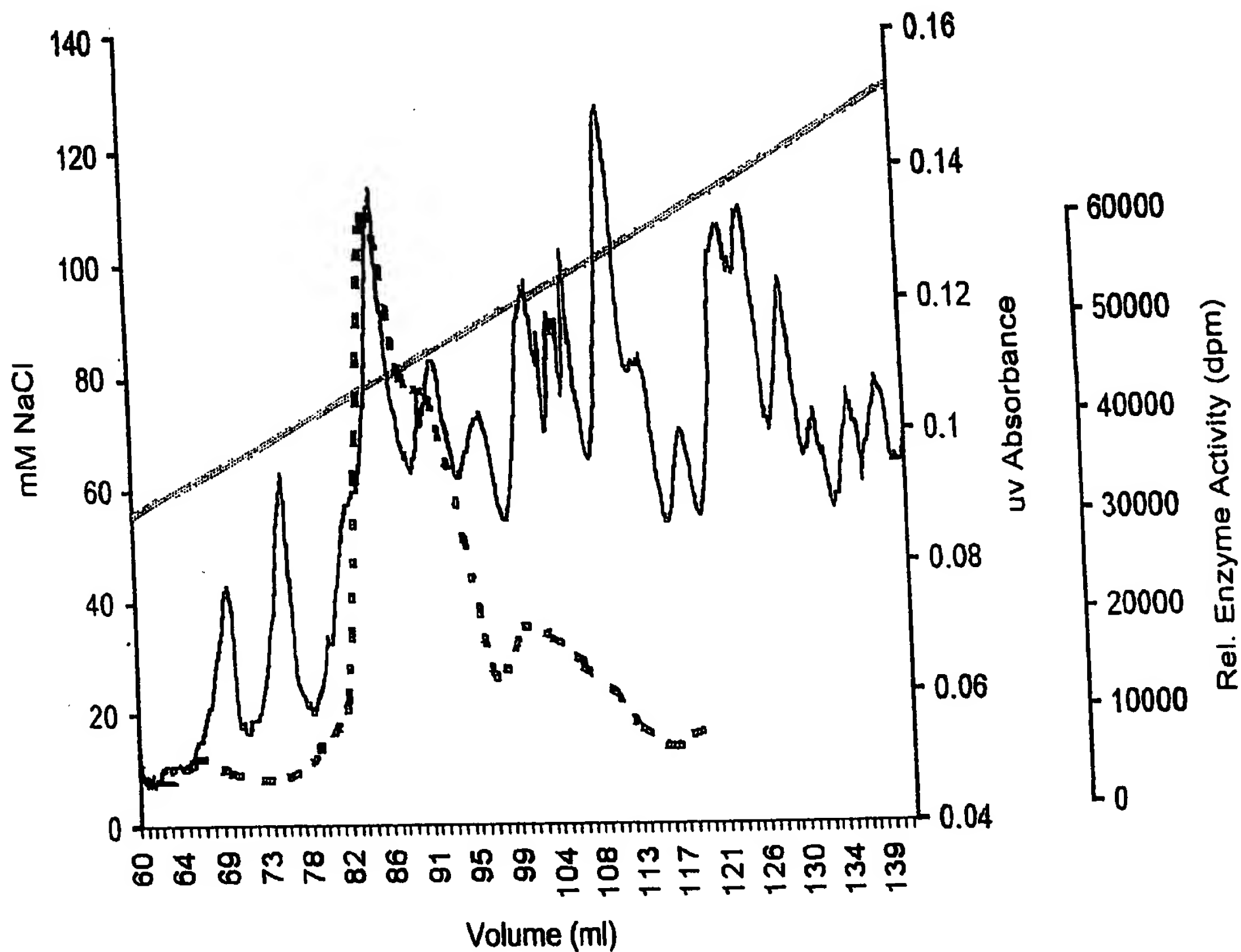


FIG. 3A



Debra A. Gordon, Ph.D.
Application No. 09/866,570
Filed: May 25, 2001
Our Ref. No. 4630-59094
For: NUCLEIC ACID MOLECULES ENCODING 10-
DEACETYLBACCATIN III O ACETYL TRANSFERASE AND
RELATED PRODUCTS
Inventor(s): Croteau *et al.*
Date of Deposit: September 8, 2003

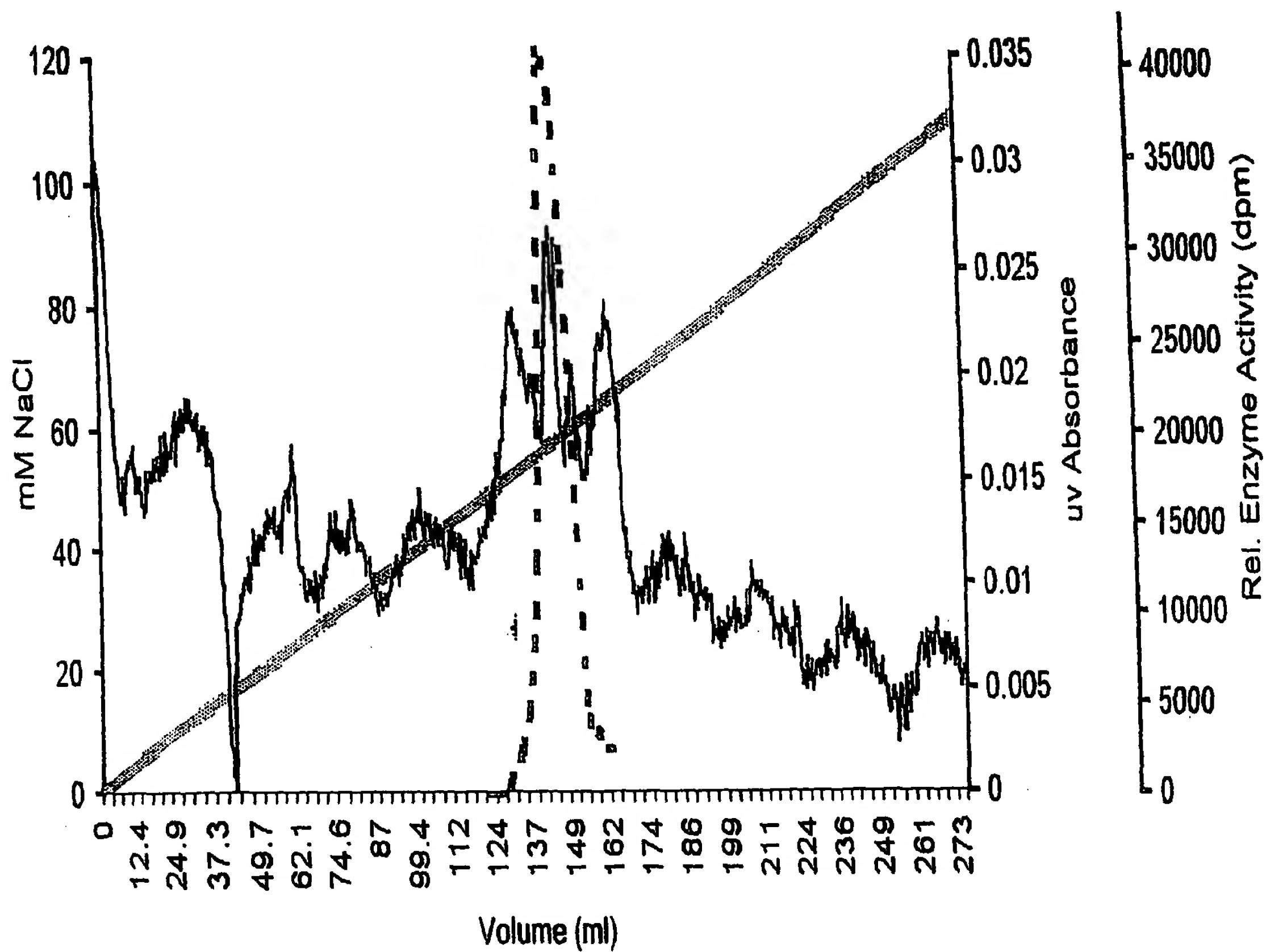


FIG. 3B

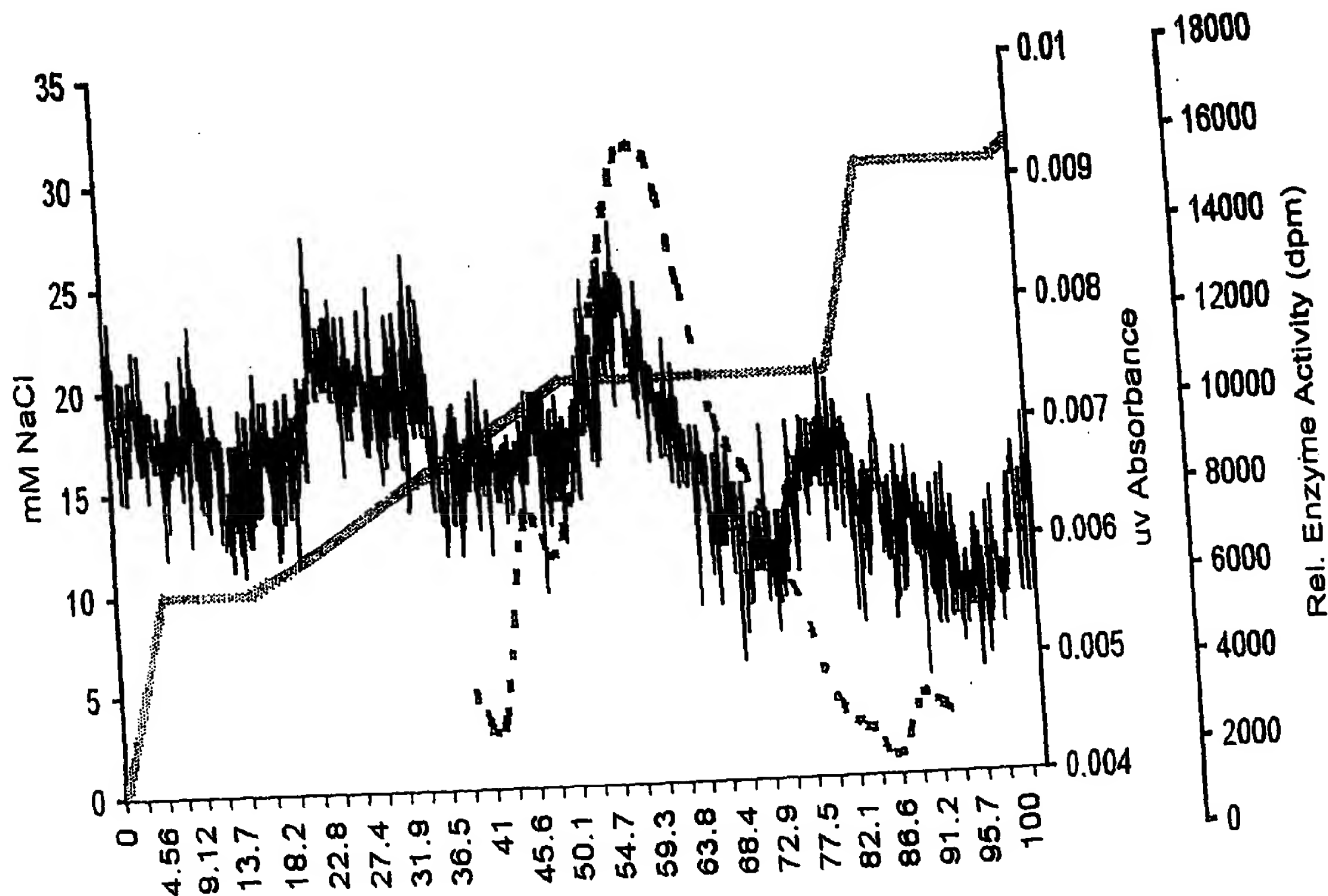


FIG. 3C



Debra A. Gordon, Ph.D.
Application No. 09/866,570
Filed: May 25, 2001
Our Ref. No. 4630-59094
For: NUCLEIC ACID MOLECULES ENCODING 10-
DEACETYLBACCATIN III O ACETYL TRANSFERASE AND
RELATED PRODUCTS
Inventor(s): Croteau *et al.*
Date of Deposit: September 8, 2003

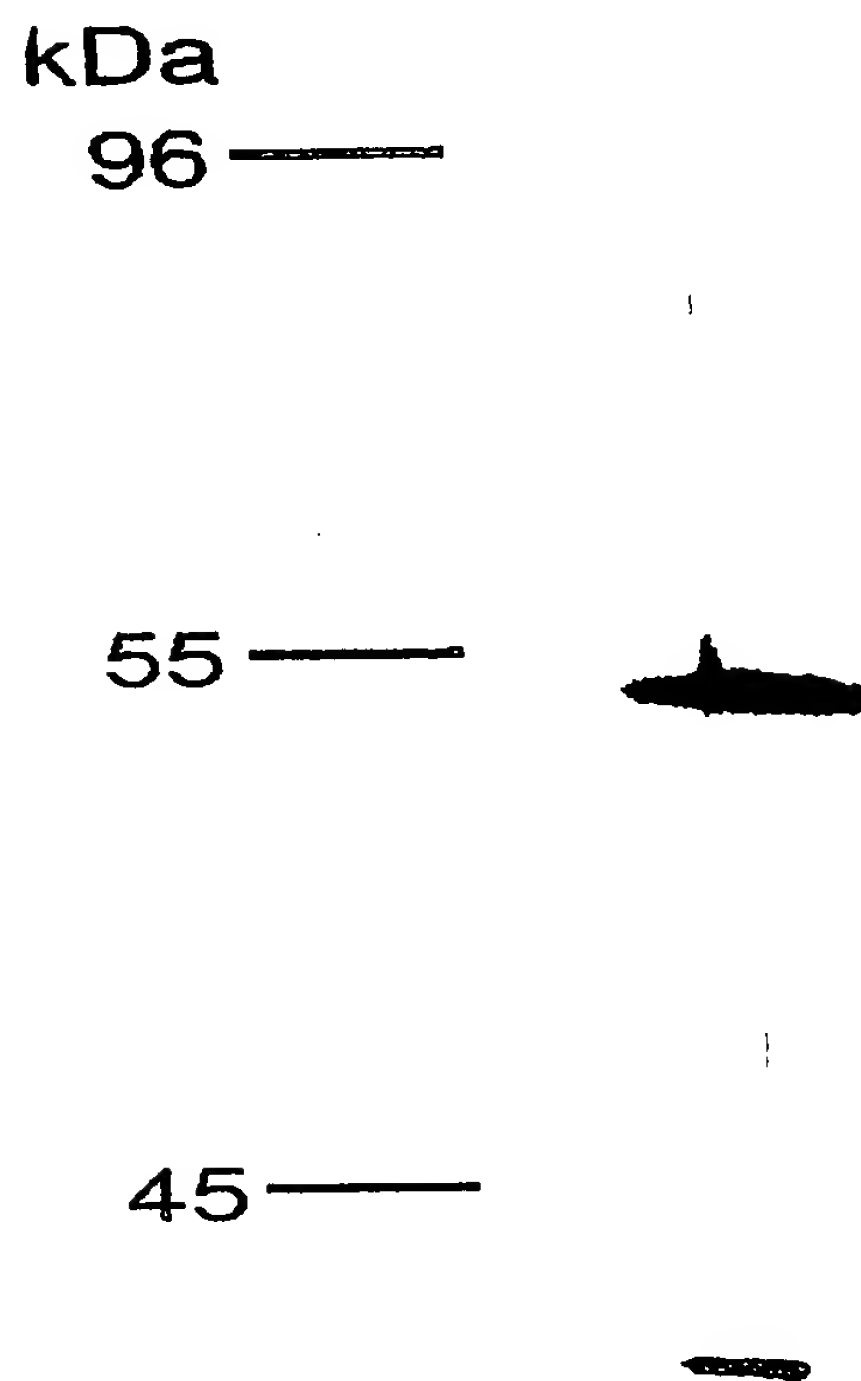


FIG. 3D



Debra A. Gordon, Ph.D.
Application No. 09/866,570
Filed: May 25, 2001
Our Ref. No. 4630-59094
For: NUCLEIC ACID MOLECULES ENCODING 10-
DEACETYL BACCATIN III O ACETYL TRANSFERASE AND
RELATED PRODUCTS
Inventor(s): Croteau *et al.*
Date of Deposit: September 8, 2003

FROM PEPTIDE FRAGMENT SEQUENCE 2

NH2-	I	L	V	Y	Y	P	P	-COOH	(Residues 1-7 of SEQ ID NO: 30)
5'	ATI	CTI	GTI	TAT	TAT	CCI	CC	3'	AT-FOR1 (SEQ ID NO: 34)
		T	C	C	C	C			
			A			A			

NH2-	Y	Y	P	P	F	A	G	-COOH	(Residues 4-10 of SEQ ID NO: 30)
5'	TAT	TAT	CCI	CCI	TTT	GCI	GG	3'	AT-FOR2 (SEQ ID NO: 35)
	C	C	C	C	C	C			
			A	A		A			

FROM SEQUENCE HOMOLOGY CONSIDERATIONS

NH2-	F	Y	P	F	A	G	R	-COOH	(SEQ ID NO: 39)
5'	TTC	TAT	CCI	TTC	GCI	GGI	AG	3'	AT-FOR3 (SEQ ID NO: 36)
	T	C		T	C	C			
					A	A			

NH2-	Y	Y	P	L	A	G	R	-COOH	(SEQ ID NO: 40)
5'	TAC	TAT	CCI	TTI	GCI	GGI	AG	3'	AT-FOR4 (SEQ ID NO: 37)
	T	C		C	C	C	C		
					A	A			

NH2-	D	F	G	W	G	K	P	-COOH	(SEQ ID NO: 41)
3'	CTA	AAA	CCI	ACC	CCI	TTT	GG	5'	AT-REV1 (SEQ ID NO: 38)
	G	G	C		C	C			
			A		A				

FIG. 4



Debra A. Gordon, Ph.D.
Application No. 09/866,570
Filed: May 25, 2001
Our Ref. No. 4630-59094
For: NUCLEIC ACID MOLECULES ENCODING 10-
DEACETYL BACCATIN III O ACETYL TRANSFERASE AND
RELATED PRODUCTS
Inventor(s): Croteau *et al.*
Date of Deposit: September 8, 2003

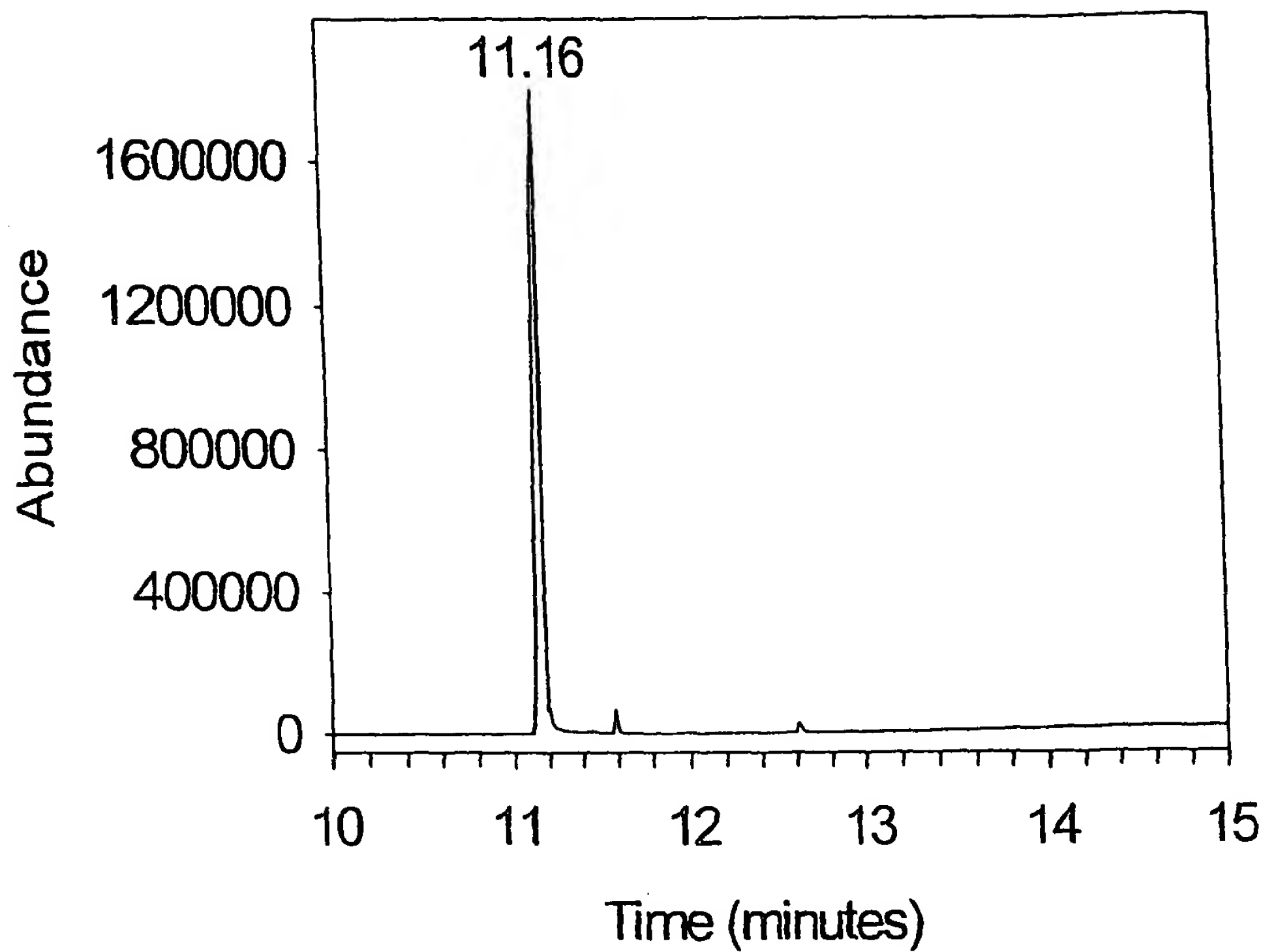
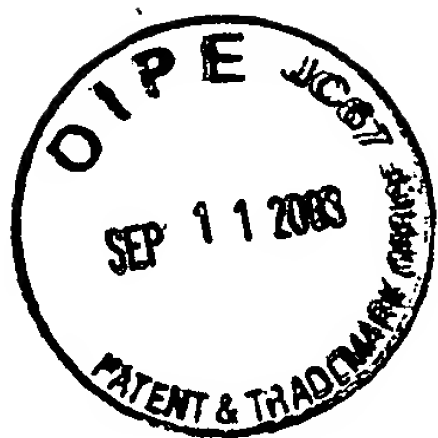


FIG. 5A



Debra A. Gordon, Ph.D.
Application No. 09/866,570
Filed: May 25, 2001
Our Ref. No. 4630-59094
For: NUCLEIC ACID MOLECULES ENCODING 10-
DEACETYLBACCATIN III O ACETYL TRANSFERASE AND
RELATED PRODUCTS
Inventor(s): Croteau *et al.*
Date of Deposit: September 8, 2003

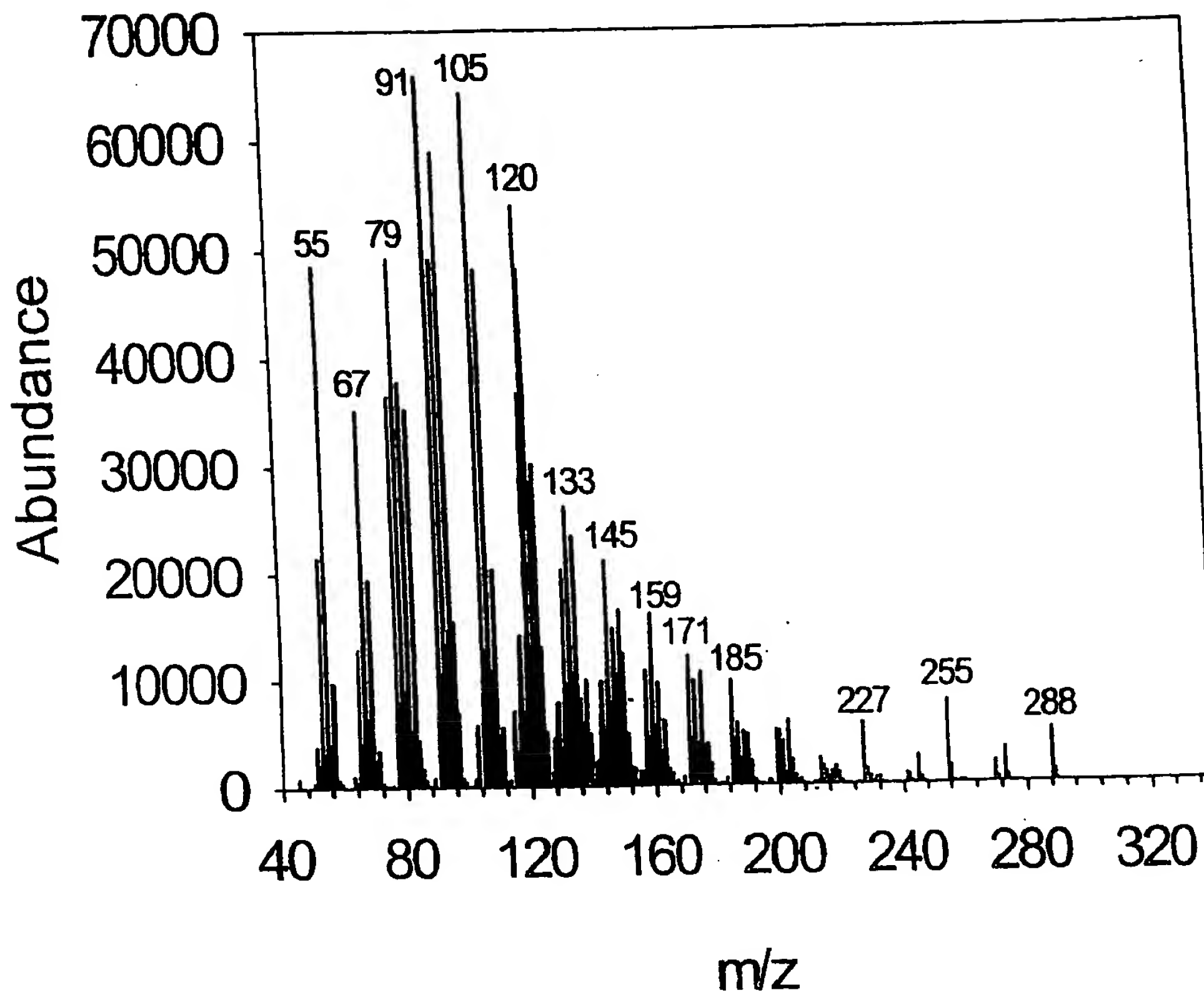


FIG. 5B



Debra A. Gordon, Ph.D.
Application No. 09/866,570
Filed: May 25, 2001
Our Ref. No. 4630-59094
For: NUCLEIC ACID MOLECULES ENCODING 10-
DEACETYL BACCATIN III O ACETYL TRANSFERASE AND
RELATED PRODUCTS
Inventor(s): Croteau *et al.*
Date of Deposit: September 8, 2003

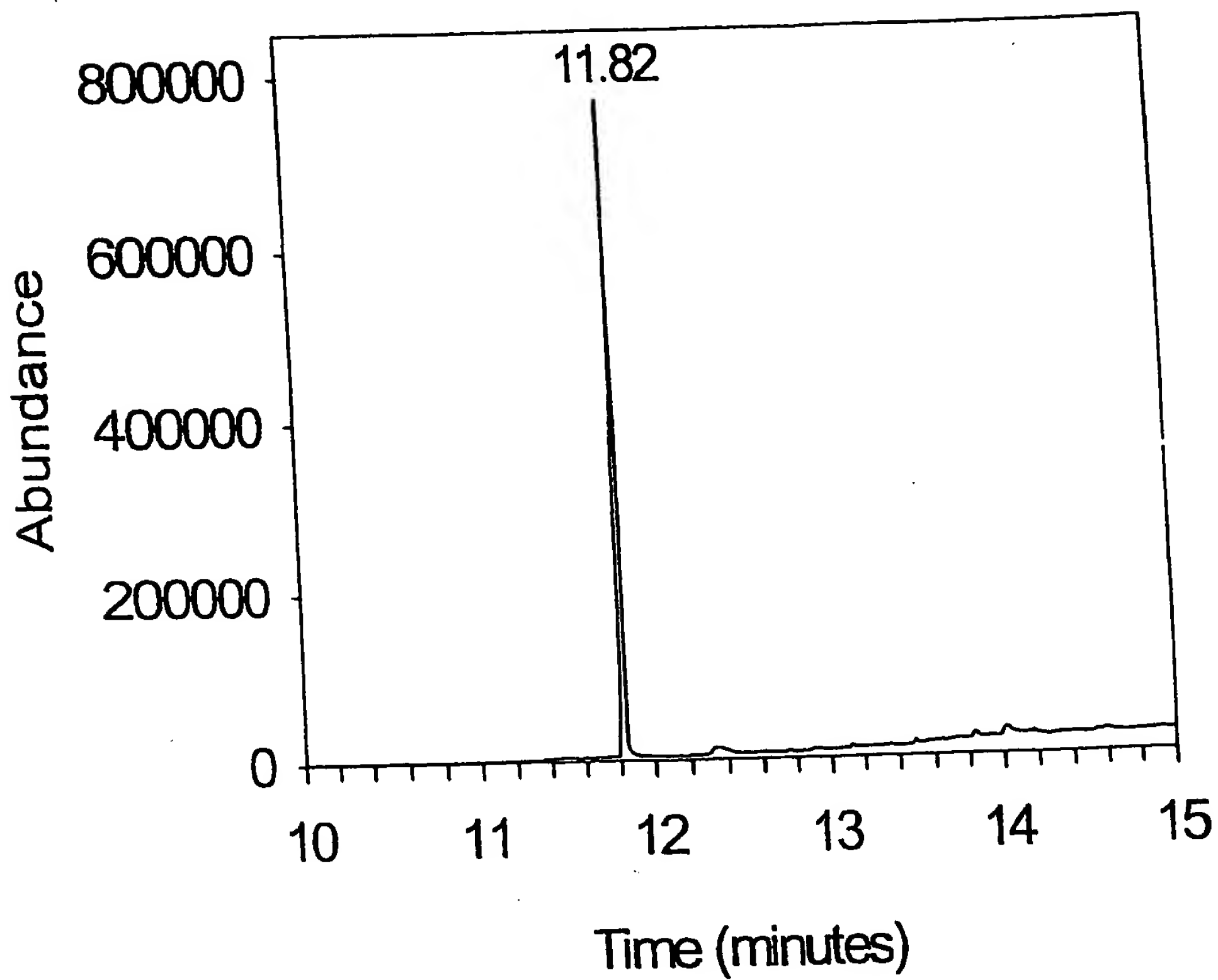


FIG. 5C



Debra A. Gordon, Ph.D.
Application No. 09/866,570
Filed: May 25, 2001
Our Ref. No. 4630-59094
For: NUCLEIC ACID MOLECULES ENCODING 10-
DEACETYL BACCATIN III O ACETYL TRANSFERASE AND
RELATED PRODUCTS
Inventor(s): Croteau *et al.*
Date of Deposit: September 8, 2003

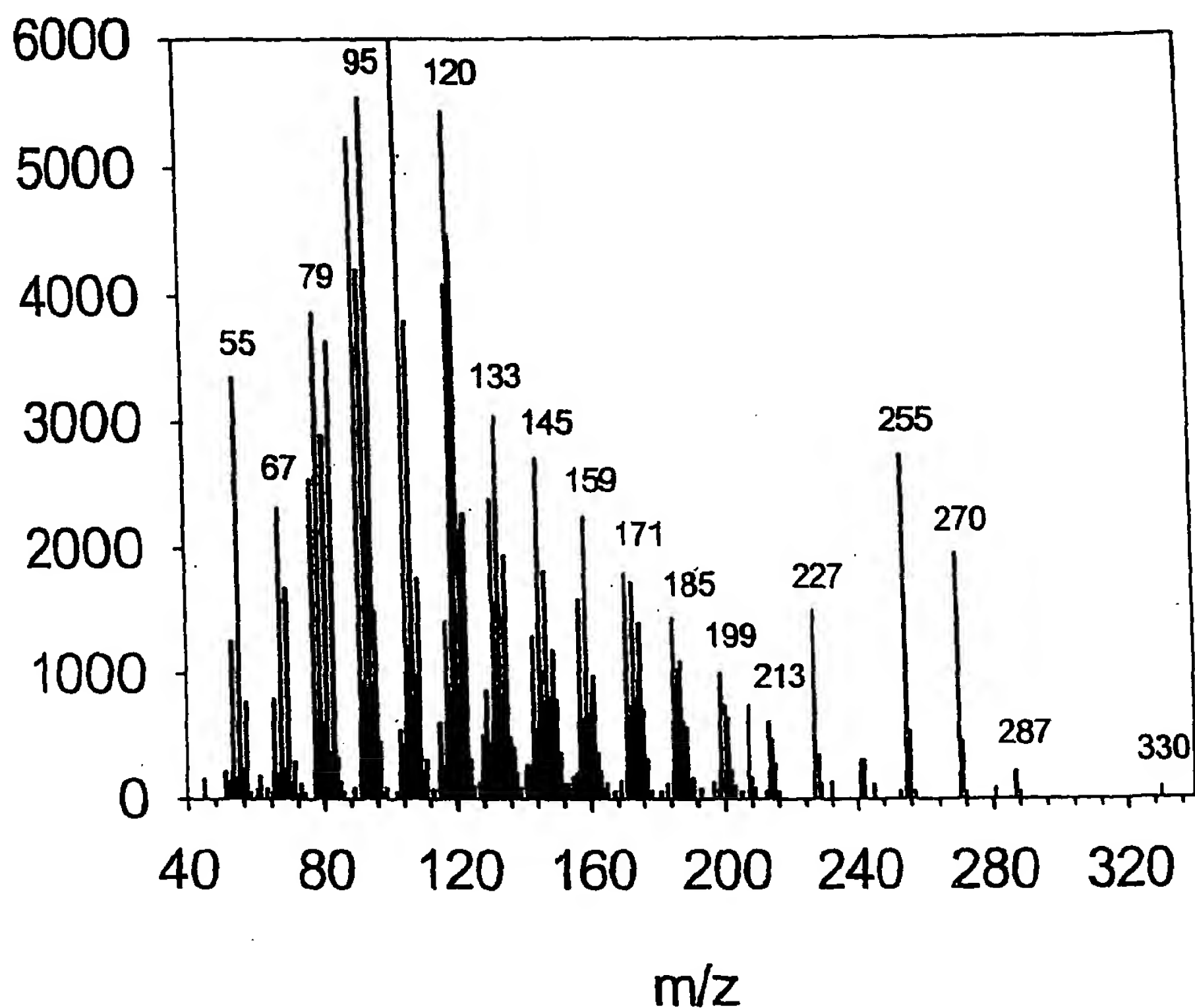


FIG. 5D



Debra A. Gordon, Ph.D.
Application No. 09/866,570
Filed: May 25, 2001
Our Ref. No. 4630-59094
For: NUCLEIC ACID MOLECULES ENCODING 10-
DEACETYLBACCATIN III O ACETYL TRANSFERASE AND
RELATED PRODUCTS
Inventor(s): Croteau *et al.*
Date of Deposit: September 8, 2003

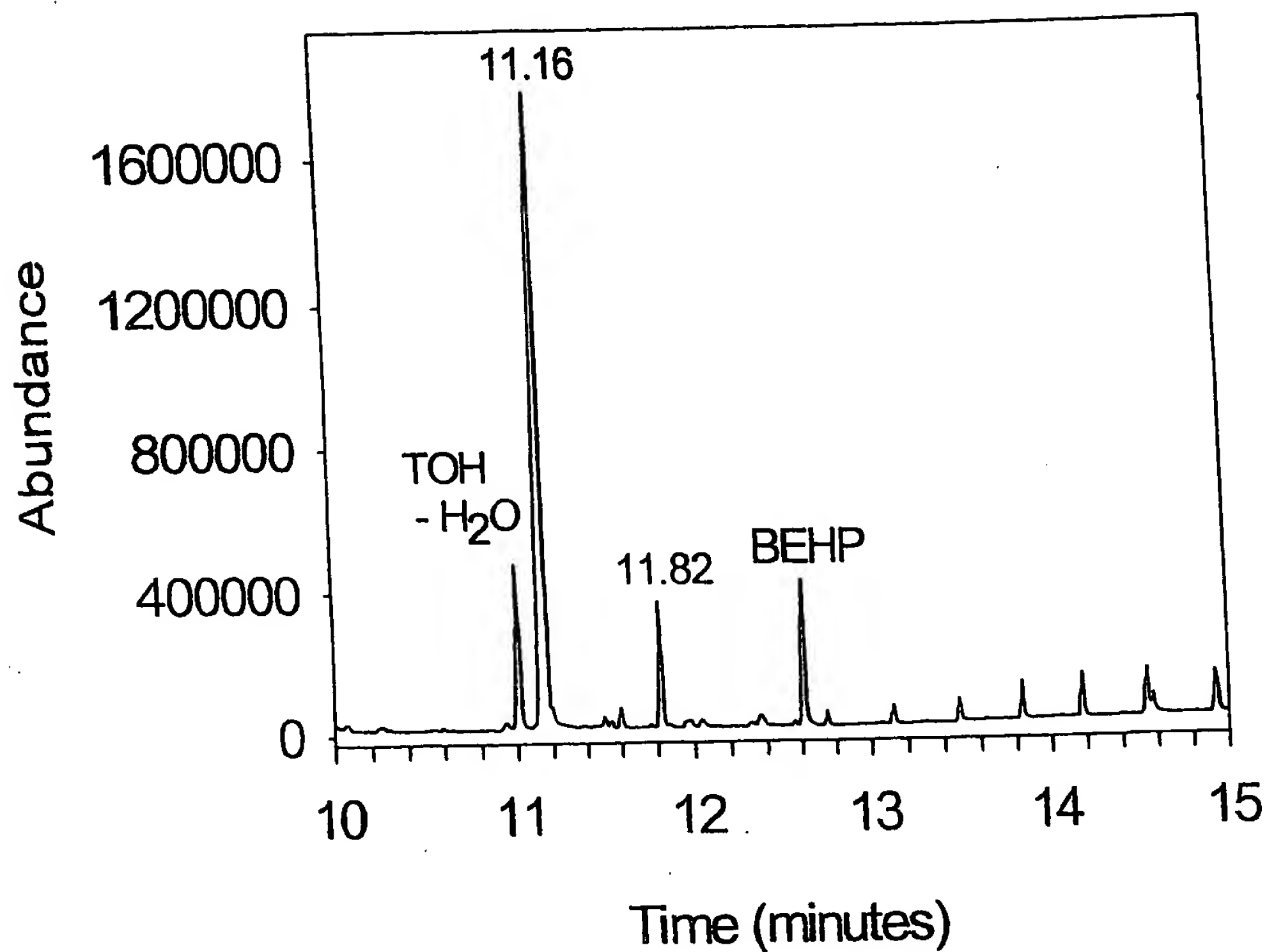


FIG. 5E

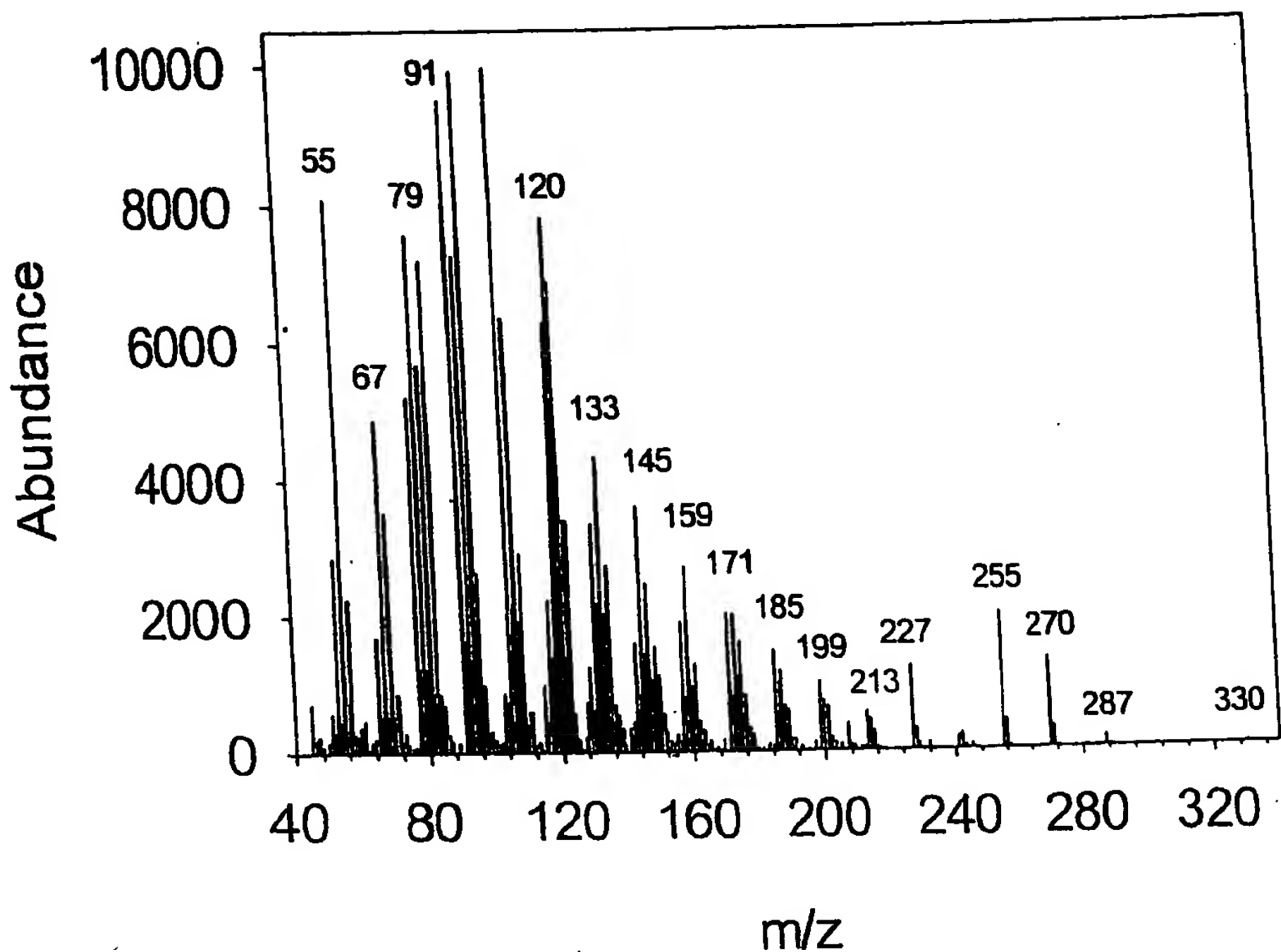
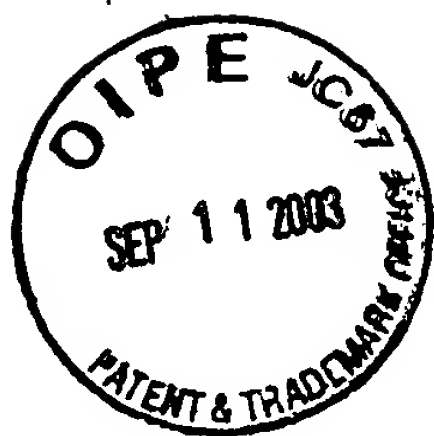


FIG. 5F



Debra A. Gordon, Ph.D.
Application No. 09/866,570
Filed: May 25, 2001
Our Ref. No. 4630-59094
For: NUCLEIC ACID MOLECULES ENCODING 10-
DEACETYLBACCATIN III O ACETYL TRANSFERASE AND
RELATED PRODUCTS
Inventor(s): Croteau *et al.*
Date of Deposit: September 8, 2003

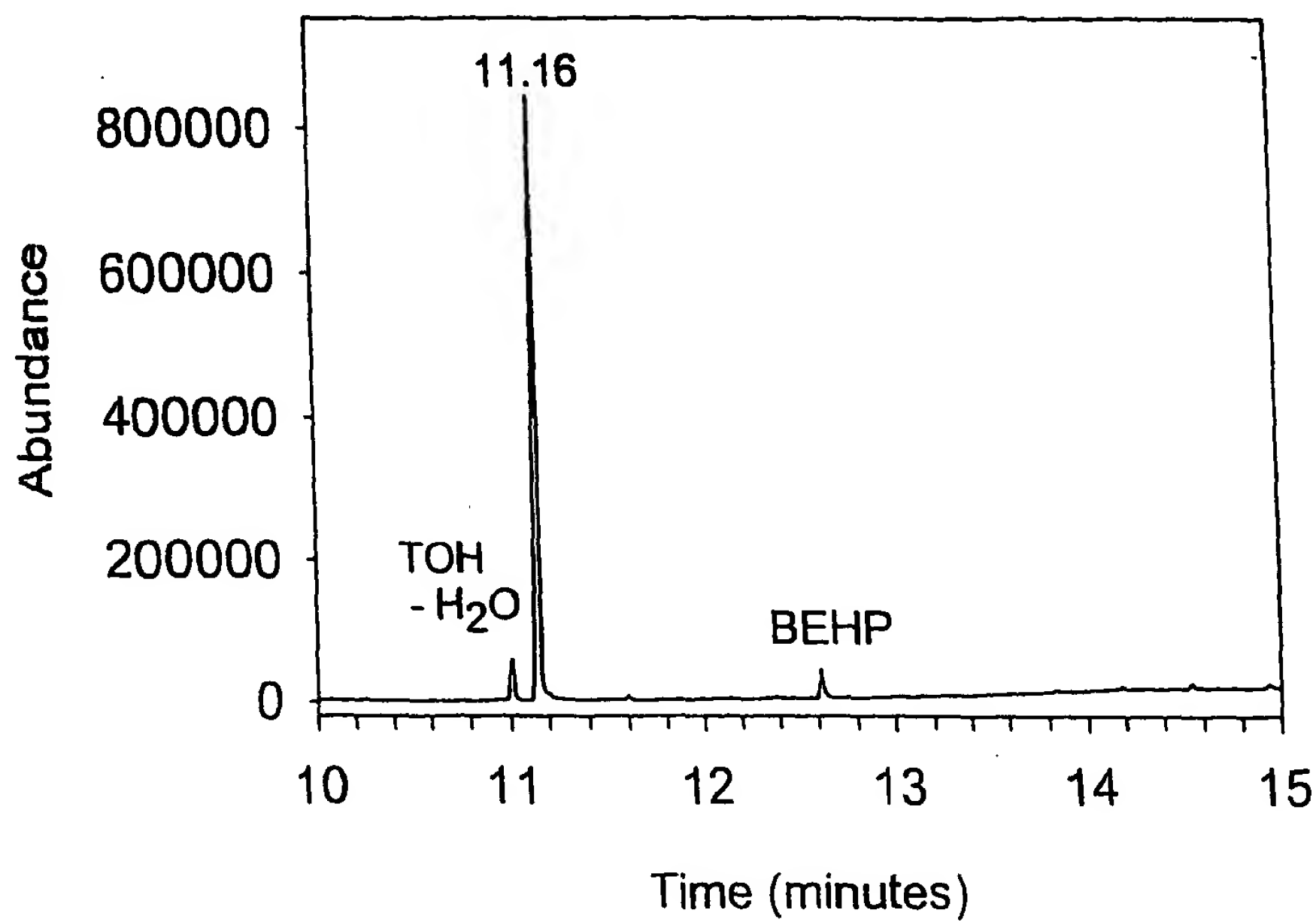
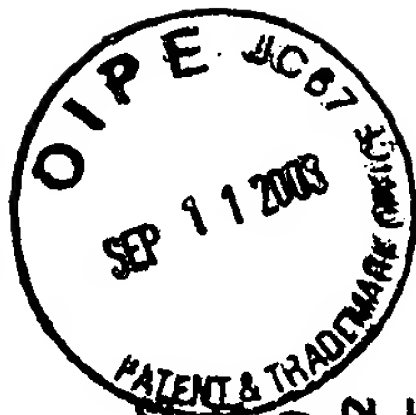


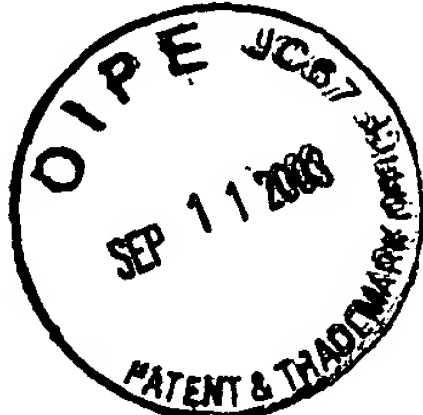
FIG. 5G



Debra A. Gordon, Ph.D.
Application No. 09/866,570
Filed: May 25, 2001
Our Ref. No. 4630-59094
For: NUCLEIC ACID MOLECULES ENCODING 10-
DEACETYL BACCATIN III O ACETYL TRANSFERASE AND
RELATED PRODUCTS
Inventor(s): Croteau *et al.*
Date of Deposit: September 8, 2003

TAX1 (SEQ ID NO: 28)	MEKTDLHYNLIEKVMVGSP	L	21
TAX2 (SEQ ID NO: 26)	MGRFNVDMIERVIVAECLQS		22
aab61522 (SEQ ID NO: 59)			0
aab61523 (SEQ ID NO: 62)	MEKNVEILSREIVKSSST	DD	22
aab95283 (SEQ ID NO: 63)	MPSEKSVTIISRNRVFE	DQKST	25
aab97723 (SEQ ID NO: 64)	MASCIQELHFTHLHIPVTINQQFLVHPSST	ANQSE	37
aac17079 (SEQ ID NO: 65)	NNPHHTFFILSENNNQMGAEQARGFHYTTTRKQVITAAL	ELQ	147
aac18062 (SEQ ID NO: 66)			20
aac27152 (SEQ ID NO: 67)	MGSSYQESPPLLEDLKYTIKES	TLIFSSSEET	34
aac99311 (SEQ ID NO: 68)	MESGKISVETETLSKTKL	IKSSSEET	27
aad12025 (SEQ ID NO: 69)	MAPI	TERKSYTIV	20
caa20531 (SEQ ID NO: 70)	MANQRKPILP	LLLEKKPV	29
caa64636 (SEQ ID NO: 71)	MDSKQSSELVFTVRRRQKPE	LIAPAKET	28
caa94432 (SEQ ID NO: 72)	DFS	FHYRKCQPE	21
cab06427 (SEQ ID NO: 73)	MSIQIKQST	MVRPAEET	19
cab10318 (SEQ ID NO: 74)	METMTMKVE	TISKEI	25
cab10319 (SEQ ID NO: 60)	MEAKLEVTGKEV	IKPASESE	22
cab40761 (SEQ ID NO: 61)	MPMLMATRIDIIQKLN	VYPFRFQN	23

FIG. 6C



Debra A. Gordon, Ph.D.
Application No. 09/866,570
Filed: May 25, 2001
Our Ref. No. 4630-59094
For: NUCLEIC ACID MOLECULES ENCODING 10-
DEACETYL BACCATIN III O ACETYL TRANSFERASE AND
RELATED PRODUCTS
Inventor(s): Croteau *et al.*
Date of Deposit: September 8, 2003

TAX1 (SEQ ID NO: 28)	K T T L Q L S S I D N L P G V R G S I F N A L L I Y N A S P S P T M I S A D P	A K P I	66
TAX2 (SEQ ID NO: 26)	K N I L H L S P I D N K T . . . R G L T N I L S V N A S Q R V S . V S A D P	A K T I	60
aab61522 (SEQ ID NO: 59)	. . . . .	. . . . .	0
aab61523 (SEQ ID NO: 62)	K R I L N L S L L D I L S S P M Y T G A L L F Y A A D P Q N L L G F S T E E T	S L K L	65
aab95283 (SEQ ID NO: 63)	D L K L S V S D L P M L S C H Y I Q K G C L F T C P N L P L P A L	I S H L	62
aab97723 (SEQ ID NO: 64)	H H S L Y L S N L D I I G A R V F T P S V Y F Y P S T N N R E S F V	L K R L	76
aac17079 (SEQ ID NO: 65)	W . . L P L S N L D L L P P L N V H V C F C Y K K P L H F T N T V A	Y E T L	184
aac18062 (SEQ ID NO: 66)	L Q K L N L S L L D Q I Q I P F Y V G L I F H Y E T I S D N S D I T	L S K L	58
aac27152 (SEQ ID NO: 67)	R K S M F L S N V D Q I L N . . . F D V Q T V H F F R P N K E F P P E M V	S E K L	72
aac99311 (SEQ ID NO: 68)	L S R Y N L S Y N D Q N I Y Q T C V S V G F F Y E N P D G I E I S T I R E	Q L	66
aad12025 (SEQ ID NO: 69)	G R F P L A E W D Q V . . G T I T H I P T L Y F Y D K P S E S F Q G N V	V E I L	58
caa20531 (SEQ ID NO: 70)	E T L S L S T L D N D P F E N E V M Y A T I Y V F K A N G K N L D D P	V S L L	67
caa64636 (SEQ ID NO: 71)	R E T K F L S D I D D Q Q E G L R . . . F Q I P V I Q F Y H K D S S M G R K D P	V K V I	68
caa94432 (SEQ ID NO: 72)	Y E F K Q L S D V D Q Q S L R . . . L Q L P F V N I Y P H N P S L E G R D P	V K V I	61
cab06427 (SEQ ID NO: 73)	K S L W L S N I D M I L R T P Y S H T G A V L I Y K Q P D N N . E D N I H P S S S M Y F D A N I L		67
cab10318 (SEQ ID NO: 74)	L Q T L Q L S I Y D H I L P P V Y T V A F L F Y T K N D L I S Q E H T	S H K L	64
cab10319 (SEQ ID NO: 60)	R . . L Q L S I L D L Y C P G I Y V S T I F F Y D L I T E S S E V F	S E N L	58
cab40761 (SEQ ID NO: 61)	H D K K K L I T L S N I D R Q C P L L M Y S V F F Y K N T T T R D F D S V	F S N L	64

FIG. 6D

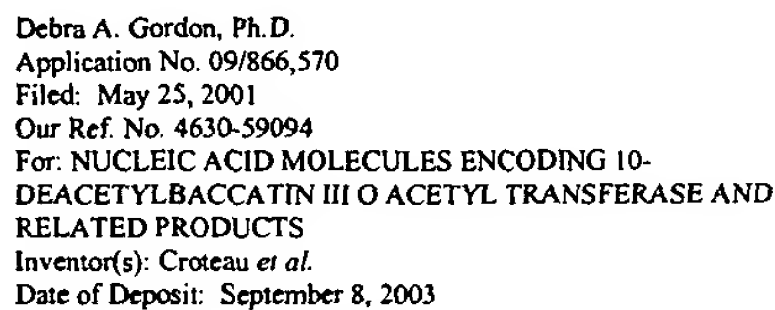
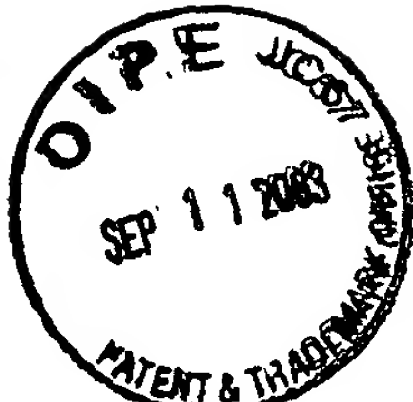


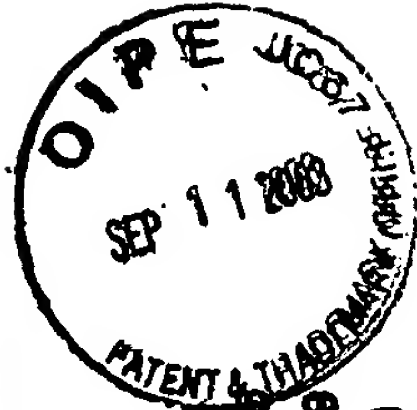
FIG. 6E



Debra A. Gordon, Ph.D.
Application No. 09/866,570
Filed: May 25, 2001
Our Ref. No. 4630-59094
For: NUCLEIC ACID MOLECULES ENCODING 10-
DEACETYL BACCATIN III O ACETYL TRANSFERASE AND
RELATED PRODUCTS
Inventor(s): Croteau et al.
Date of Deposit: September 8, 2003

TAX1 (SEQ ID NO: 28) LGD.FDDSNPSEFQ.QLLFSPLDITNF.....KDLSLLVVQVYTRRTTGG.GE 156
TAX2 (SEQ ID NO: 26) LQB.FNEYDPSEFQ.QLVFNLRDVI.....EDLHLLTVQVYTRRTTGG.GE 150
aab61522 (SEQ ID NO: 59) ILEN.PNPN.ELNKLHPFEFHEVSDVP.....LTVQLTFFETGG.GL 41
aab61523 (SEQ ID NO: 62) FLKC.PVPE.SLELLIP...VEAKSRE...AVTWELLIQANFETSG.GL 149
aab95283 (SEQ ID NO: 63) VIAGIDVPD.VVKEFFTYDR..AVSYE...GHNREILAVQVYTELN..DGY 153
aab97723 (SEQ ID NO: 64) LGDLITV?NPAPWLPILFRNPGEAYKI.....LEMPILLIAQVYTRRTTGG.GE 169
aac17079 (SEQ ID NO: 65) LNLY.DPDE.SIAKLVPIKKHG.....VIAIQVYTRTKGG.SI 286
aac18062 (SEQ ID NO: 66) FLIG.EESN.NLDLLVGL...SGFLSE...TETPELAAIQLNMFKGG.GL 144
aac27152 (SEQ ID NO: 67) LGD.LVYPNPAFAQLVTSQIQ.SLPKD.....DQELFFVFQITSEKGG.GE 183
aac99311 (SEQ ID NO: 68) ILKY.ELRS.YARDLVLPKRVTVGSED...TTA...IVQLSHFDGG.GL 150
aad12025 (SEQ ID NO: 69) FKD.FS.PTPEFENLM.PQVNYKNPIE.....TIPFLAQVYTRTKGG.GI 147
caa20531 (SEQ ID NO: 70) LN.....YIENLDDQVALRLVPEIEIDYESNVCHPLALQVYTRTKAGG.GE 160
caa64636 (SEQ ID NO: 71) FGDELQPPFPFPCLE.ELLYDVDPDSAGV.....LNCPELILLIQVYTRLRGG.GE 159
caa94432 (SEQ ID NO: 72) FWDTLPLYSLSMNNIHNALNSDEV.....LNSEPLLILLIQVYTRLRGG.GE 153
cab06427 (SEQ ID NO: 73) FGD.FR.PNDELHRVMVPTCDYSKGIS.....SEFELLMVQLTFRTRGG.GV 156
cab10318 (SEQ ID NO: 74) FLKC.PDFD.ALQQLPLDVPDNPYVA...AATWELLLVKAATYETGG.GM 152
cab10319 (SEQ ID NO: 60) FLRN.LNTD.SLSGFLPTLAAGE...S...PAWELLLSVKVTETGGSV 143
cab40761 (SEQ ID NO: 61) LGDLTQYNEFYENLVYKPSLDGDFSV.....MEELVVAAQVYTRRTTGG.GY 156

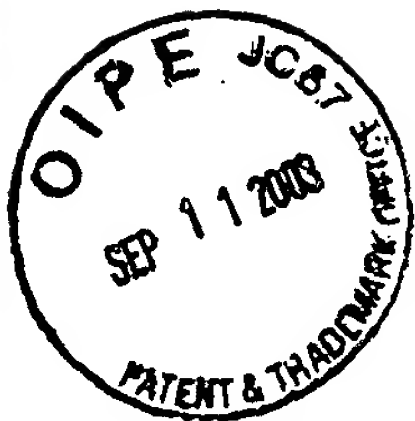
FIG. 6F



Debra A. Gordon, Ph.D.
Application No. 09/866,570
Filed: May 25, 2001
Our Ref. No. 4630-59094
For: NUCLEIC ACID MOLECULES ENCODING 10-
DEACETYL BACCATIN III O ACETYL TRANSFERASE AND
RELATED PRODUCTS
Inventor(s): Croteau *et al.*
Date of Deposit: September 8, 2003

TAX1 (SEQ ID NO: 28) VVGVSFHHGVCDEGRGAQELKGLAEMABGEVKLSLEPIW 196
TAX2 (SEQ ID NO: 26) VVGTRFHHVSVDGKIGQLLKGMGEMABGEFKPSLEPIW 189
aab61522 (SEQ ID NO: 59) ALGIGLSKKLCDAALSGLIENVSHAFABRGQTDEIITPSF 80
aab61523 (SEQ ID NO: 62) VITICVSHKITDATSLSLAMEIRGHESBGLLITLPSF 187
aab95283 (SEQ ID NO: 63) FIGCSVNHAVTDGTSLSLWNTFABEVSBGAKNVTROPDEFTRRESVL 198
aab97723 (SEQ ID NO: 64) SLGIRLCNCICDGFAMQELGSHATKTKLIADPEPVM 209
aac17079 (SEQ ID NO: 65) VVGCTFDHRRVADAYSMNMELLSHAEISBVDVPISCVPSF 305
aac18062 (SEQ ID NO: 66) VIGAQFNHIGDMETMSTFMNSHAKACBVGIKEVAHRTF 183
aac27152 (SEQ ID NO: 67) AMGISSTNHTTFDELSEFKTLENLSLLHEKPLSTPNCN 201
aac99311 (SEQ ID NO: 68) AVAFGISKKVADGGGTIASFMKKDHAASCYLSSHHVPTLL 191
aad12025 (SEQ ID NO: 69) SLSVNVSHAVDGGQSAHLHISEHGRLLAGEPLETVPL 185
caa20531 (SEQ ID NO: 70) TIGTALTAAVCDEYGVAAQIIHALTELAAAGKTEPSVKSVW 199
caa64636 (SEQ ID NO: 71) IFALRLNHTMTMSDAPGLVQHTMTAVGEMABGGSAFPILEPVW 198
caa94432 (SEQ ID NO: 72) IFGLCFNHTMTADGFGIVQHTMKATAEIAEGAFAPSILEPVW 192
cab06427 (SEQ ID NO: 73) SIGFAQHSHHVCDGMAHFEFTNNSHARIKGLLPALEPVH 194
cab10318 (SEQ ID NO: 74) AIGICITKKIAADAASISTHIRSHATAGGENDAAMESPVF 193
cab10319 (SEQ ID NO: 60) AVSVSVSHKICDIAASLVTHVKKDHTTAKGKSNSTIEF 181
cab40761 (SEQ ID NO: 61) SIGIGTSNLSLFDGISAYEETHAHASNSHINHKNKSNISKITNKKEDVVIKEVH 204

FIG. 6G



Debra A. Gordon, Ph.D.
Application No. 09/866,570
Filed: May 25, 2001
Our Ref. No. 4630-59094
For: NUCLEIC ACID MOLECULES ENCODING 10-
DEACETYL BACCATIN III O ACETYL TRANSFERASE AND
RELATED PRODUCTS
Inventor(s): Croteau *et al.*
Date of Deposit: September 8, 2003

TAX1 (SEQ ID NO: 28)	NRELVKLD...DP...KYLQFFEF...EFLRAP...SIV...EKIVQ	227
TAX2 (SEQ ID NO: 26)	NREMVKPE...DI...MYLQFDEF...DFIHPP...LNL...EKSIQ	221
aab61522 (SEQ ID NO: 59)	DLAKMFPPCDIEN...LNMATGITKE...NIVT...107	107
aab61523 (SEQ ID NO: 62)	TASEVFPPKPLDEL...PSKPMDRKKEEVEEMS...CVT...218	218
aab95283 (SEQ ID NO: 63)	ISPAVLKVPQGGPKVTFDENAPLRERISFSRESIQELKAVVNKK...243	243
aab97723 (SEQ ID NO: 64)	DBETFKPR...NP...PMVKYPPH...EYLPPIEERSNLNLSLWD...TKPLQ	249
aac17079 (SEQ ID NO: 65)	RBSLLNPRRPLVMDPSIDQIYMPVTSLPPPPQETTNPENLLAS...347	347
aac18062 (SEQ ID NO: 66)	GLAPLMPSAKVLN...IPPPPSFEG...VKFVS...210	210
aac27152 (SEQ ID NO: 67)	DRITLLKARDPPS...VAFPH...EL...VKFQDCETTTFEEATSEHLDF	242
aac99311 (SEQ ID NO: 68)	VSDSIEFPRQDNII...CEQFPTSK...NCVE...216	216
aad12025 (SEQ ID NO: 69)	DBKILWAGEPLPPFVSPPPKFDHK...EFDQPPFLIGETDNVEERKKKTIV...232	232
caa20531 (SEQ ID NO: 70)	QBERLVGKIDNKP...GKVPGSII...D...GFLATSAYLPT...TDVVT	237
caa64636 (SEQ ID NO: 71)	CBELLNAR...NP...PQVTCTH...EYDEVRODTKGTIIP...DDMVH	236
caa94432 (SEQ ID NO: 72)	QBALLTAR...DP...PRITFRHY...EYDQVVDKSGLIIPV...NSKID	230
cab06427 (SEQ ID NO: 73)	DBYLHLRPRNPPQI...KYS...QFE...PEVPSLPNELLDGKTNKSQ...235	235
cab10318 (SEQ ID NO: 74)	AGANFYPPANEAF...KLPADQAGKRS...SIT...221	221
cab10319 (SEQ ID NO: 60)	AETTIYPPPPSHM...YEQFPSTDSDSNITSKYVL...213	213
cab40761 (SEQ ID NO: 61)	DBRNLLVNRDAVRETNAAAICHLVQLIKQAMMTYQEQNRNLELPD SGFVI	258

FIG. 6H



Debra A. Gordon, Ph.D.
Application No. 09/866,570
Filed: May 25, 2001
Our Ref. No. 4630-59094
For: NUCLEIC ACID MOLECULES ENCODING 10-
DEACETYL BACCATIN III O ACETYL TRANSFERASE AND
RELATED PRODUCTS
Inventor(s): Croteau *et al.*
Date of Deposit: September 8, 2003

TAX1 (SEQ ID NO: 28)	TYIIDEETIN YIKQSV. MEEC.	KEF	251
TAX2 (SEQ ID NO: 26)	ASMVISFERIN YIKRCM. MEEC.	KEF	245
aab61522 (SEQ ID NO: 59)	RRFVFLRSSVESL RERFSGNK.	KIR. AT	133
aab61523 (SEQ ID NO: 62)	KRFVFDASKIKKLRRAK. ASRN.	LVKNP	244
aab95283 (SEQ ID NO: 63)	KWLTVDNGEIDCGVELLGKQSN DKLN GKENG I LTEMLES LFGRNDAVSKPV		293
aab97723 (SEQ ID NO: 64)	KCYRISKEFQCRVKSI A. QGED.	PTL	273
aac17079 (SEQ ID NO: 65)	RIYYIKANALQELQTLASSKN.	GKRT	373
aac18062 (SEQ ID NO: 66)	KRFVENENAI TRLRKEATEEDGDD.	DQKKRPS	244
aac27152 (SEQ ID NO: 67)	KIKLSSSEQIKK KERA. . SET.	SNG	265
aac99311 (SEQ ID NO: 68)	KTFIFPPEAIEKKSKAVEFG.	IEKPT	242
aad12025 (SEQ ID NO: 69)	VMLPLSTSQLQKLRSKANGSKH.	SDP	257
caa20531 (SEQ ID NO: 70)	ETINIRAGDIKKRLKDSM. MKEC.	EYL	261
caa64636 (SEQ ID NO: 71)	KSEFFFGPSEVSA LRRFV. PHHL.	RK.	259
caa94432 (SEQ ID NO: 72)	QLFFFSQLQISTLRQTL. PAHL.	HD.	253
cab06427 (SEQ ID NO: 73)	TLFILSREQINTLKKQLDLSNN.	TTR	260
cab10318 (SEQ ID NO: 74)	KRFVFEASKVEDLRTKAASEE.	TVDQPT	248
cab10319 (SEQ ID NO: 60)	KRFVFEPSKIAELKHKAASES.	VPVPT	239
cab40761 (SEQ ID NO: 61)	KTFELNGDAIESM KKKSL EG.		276

FIG. 61



Debra A. Gordon, Ph.D.
Application No. 09/866,570
Filed: May 25, 2001
Our Ref. No. 4630-59094
For: NUCLEIC ACID MOLECULES ENCODING 10-
DEACETYL BACCATIN III O ACETYL TRANSFERASE AND
RELATED PRODUCTS
Inventor(s): Croteau *et al.*
Date of Deposit: September 8, 2003

TAX1 (SEQ ID NO: 28) . CS . . . SFEVASMTWIAARTRAEQIPESEY VKILFGMDMBNSFN 291
TAX2 (SEQ ID NO: 26) . FS . . . AFEVVVLLIWLARTKSEFRIPPNEY VKIIEPIIDMBNSFD 288
aab61522 (SEQ ID NO: 59) RVE VLSVFIWSRE . . . MASTNHDDKTKGIYT LIHPYNLBRQAD 173
aab61523 (SEQ ID NO: 62) RVE AVTALFWRCV . . . TKVSRLLSSLTPRTSV LQILYNLBRGKVD 284
aab95283 (SEQ ID NO: 63) AVEISSFQSLCALLEWRAITRAKKLPSSKTT FRMAVNCBHBLS 336
aab97723 (SEQ ID NO: 64) VCS TFDAMAHHIWSWSVVKALDVKPLDYN LRLTFSVNVBTBLS 315
aac17079 (SEQ ID NO: 65) KLE SFSALFLWKLVAEHAHAKDPVPPIKTSK LGIVVDGRRBLM 413
aac18062 (SEQ ID NO: 66) RVD LVTALFLSKSLIEMDCAKKEQTKSRPSL MVHMMNLBRKBT 286
aac27152 (SEQ ID NO: 67) NVRVTGFNVVTLVWRCCKALSVAAEEGEET . NLERESTILYAYDIAGBL . 313
aac99311 (SEQ ID NO: 68) RVE VLTALFLSRCATVAGKSAKNNCGQSLPFPVLQAINLBRPILE 287
aad12025 (SEQ ID NO: 69) AKGETRYETVTGHVWRCACAKARGHSPEQT . AL GICIDTBSBM . 299
caa20531 (SEQ ID NO: 70) KESFTTYEVLSSYIWKLRSRALKLNPDGIT V.LGVAVGIHVL 304
caa64636 (SEQ ID NO: 71) . CS TFEELLTAVLWRCRTMSLKPDPPEE VRALCIYNABSBFN 299
caa94432 (SEQ ID NO: 72) . CP SFEVLTYVWRLRTIALQFKPEEE VRFLCVMNLSKID 293
cab06427 (SEQ ID NO: 73) LSTYEVVAHVVWRSVSKARGLSHDHEEI . KL IMPYDGBSIN 300
cab10318 (SEQ ID NO: 74) RVE SVTALIWKCF . . . VASSK TTTCDHKV LVQLANLRSKIP 286
cab10319 (SEQ ID NO: 60) RVE AIMSLLIWRC RNSRSNLLIPRQAV MWQAMDIRLRIP 279
cab40761 (SEQ ID NO: 61) . FMCSSFEFLAHLWKARTRALGLRRDA MVCLQFAVDIRKRTE 318

FIG. 6J



Debra A. Gordon, Ph.D.
Application No. 09/866,570
Filed: May 25, 2001
Our Ref. No. 4630-59094
For: NUCLEIC ACID MOLECULES ENCODING 10-
DEACETYL BACCATIN III O ACETYL TRANSFERASE AND
RELATED PRODUCTS
Inventor(s): Croteau *et al.*
Date of Deposit: September 8, 2003

TAX1 (SEQ ID NO: 28)	P. P L P S G Y X G N S I G T A C A V D N V Q D . . . L L S G . S L L R A I M I I K X S X V S L . . .	334
TAX2 (SEQ ID NO: 26)	S. P L P K G Y X G N A I G N A C A M D N V K D . . . L L N G . S L L Y A L M L I K X S X F A L . . .	328
aab61522 (SEQ ID NO: 59)	P. D I P D N M F G N I M R F S V T V P M M I I N . . . E N D E E K A S L V D Q M R E E I R K I . . .	217
aab61523 (SEQ ID NO: 62)	S. . . L C E N T I G N . M L S L M I . . . L K N E E . . . A A I E R I Q D V V D E I R R A X E I F . . .	324
aab95283 (SEQ ID NO: 63)	P. K L N P E Y F G N A I Q S V P T F A T A A E V L S R D L K W C . . .	368
aab97723 (SEQ ID NO: 64)	T L K L R K G F Y G N V V C L A C A M S S V E S . . . L I N D . S L S K T T R L V Q D A R L R V . . .	359
aac17079 (SEQ ID NO: 65)	E. K E N N T Y F G N V L S V P F G G Q R I D D L I S K P L S W T E E V H R F L X	455
aac18062 (SEQ ID NO: 66)	L. A L E N D V S G N F F I V V N A . . . E S K I T V A P K I T D L T E S L G S A . . .	323
aac27152 (SEQ ID NO: 67)	N P E L P P S Y T G N A V L T A Y A K E K C K A . . . L L E E . P F G R I V E M V G E G S K R I . . .	357
aac99311 (SEQ ID NO: 68)	. . . L P Q N S V G N L V S I Y F S R T I K E N D Y L N E K E Y T K L V I N E L R X E X Q K I . . .	331
aad12025 (SEQ ID NO: 69)	E P P L P R G Y F G N A T L D V V A A S T S G E . . . L I S N . E L G F A A S L I S X A I K N V . . .	343
caa20531 (SEQ ID NO: 70)	P. P L P K G Y X G N A Y I D V Y V E L T V R E . . . L E E S . S I S N I A N R V K X A X K T A Y E K	350
caa64636 (SEQ ID NO: 71)	P. P L P T G Y X G N A F A F P V A V E T A A K . . . L S K N . P L G Y A L E L Y K X T X S D V . . .	342
caa94432 (SEQ ID NO: 72)	I. P L . . G Y X G N A V V P A V I T T A A K . . . L C G N . P L G Y A V D L I R X A X A K A . . .	334
cab06427 (SEQ ID NO: 73)	N P S L P K G Y C G N V V F L A V C T A T V G D . . . L S C N . P L T D T A G K V Q E A L K G L . . .	344
cab10318 (SEQ ID NO: 74)	S. L L Q E S S I G N L M F S S V . . . L S I G R . . . G G E V K I E E A V R D L R X K X E E L . . .	328
cab10319 (SEQ ID NO: 60)	S. S V A P K D V I G N L Q S G F S . . . L K K D A . . . E S E F E I P E I V A T F R X N X E R V . . .	321
cab40761 (SEQ ID NO: 61)	T. P L P E G F S G N A Y V L A S V A S T A R E . . . L L E E L T L E S I V N K I R E A X K S I . . .	362

FIG. 6K



Debra A. Gordon, Ph.D.
Application No. 09/866,570
Filed: May 25, 2001
Our Ref. No. 4630-59094
For: NUCLEIC ACID MOLECULES ENCODING 10-
DEACETYL BACCATIN III O ACETYL TRANSFERASE AND
RELATED PRODUCTS
Inventor(s): Croteau *et al.*
Date of Deposit: September 8, 2003

TAX1 (SEQ ID NO: 28)	..NDNF..KSR	AVVKPSEL	DVN.....	MNHEN	VVA	FAD	WSRL	367										
TAX2 (SEQ ID NO: 26)	..NENF..KSR	ILTKPSTL	DAN.....	MKHEN	VVG	CGD	WRNL	361										
aab61522 (SEQ ID NO: 59)	..DAVY	VKKLQED	NRGHL.....	EFLNK	QAS	GFGV	NGEIV	SFS	TLCKF	259								
aab61523 (SEQ ID NO: 62)	..S...LN	CKEMSK	SSSRIF	ELLEIG	..KV	YGRG	..NEM	DLW	MSN	WCKL	366							
aab95283 (SEQ ID NO: 63)	..ADQL	NQSA	AAHQD	GRIR	SVV	ADWE	ANPR	CFPL	GNAD	GSV	TMG	SPRF	416					
aab97723 (SEQ ID NO: 64)	..SE	DYLR	SMVD	YVDV	KRPKR	.....	LEFG	GKLT	ITQ	WTRF	393						
aac17079 (SEQ ID NO: 65)	..SV	TKEH	FLNL	IDW	VE	TCR	PTPA	VSRI	YSVG	SDDG	PAF	VVS	GRSE	500				
aac18062 (SEQ ID NO: 66)	..CG	EI	SEVA	KVD	DAE	VVS	SMVL	NSVR	EYEW	GKGE	KNV	FLYT	WCRF	371				
aac27152 (SEQ ID NO: 67)	..TDE	YAR	SAID	WGEL	YKG	.....	FPH	GEV	LVS	W	WKL	388					
aac99311 (SEQ ID NO: 68)	..KN	LSRE	KLT	YVA	QMEE	FVK	SLKE	FDIS	NFL.....	DID	AYL	SD	W	CRF	374			
aad12025 (SEQ ID NO: 69)	..TNE	YVM	IGIE	YLKN	QKDL	KKF	QDL	HAL	GST	EGPF	YG	NP	NLG	V	W	TL	391	
caa20531 (SEQ ID NO: 70)	GY	IEEL	KN	TER	LMR	DD	SMFE	.....	GV	SDGL	FFLT	DD	WRNI	386			
caa64636 (SEQ ID NO: 71)	..TE	EYMK	SVAD	LMV	LKGR	PH.....	FTV	VRT	FLV	SDV	TRG	376						
caa94432 (SEQ ID NO: 72)	..TM	EYIK	STVD	LMV	IKGR	PY.....	FTV	VGS	FMM	SDL	TRI	368						
cab06427 (SEQ ID NO: 73)	..DD	DYLR	SAID	HTE	SKPGL.....	PVP	YMG	SP	EK	TLY..	PNV	L	VN	W	GRI	386		
cab10318 (SEQ ID NO: 74)	..GT	VIL	DE	GGSS	DDSS	SMIG	SKLAN	MLTN	YSRL	SYET	HEPY	TVS	W	CKL	376			
cab10319 (SEQ ID NO: 60)	..NE	MIKE	GLQ	GN	TIG	QSLL	SLMA	ETV	SES.....	TEI	DRY	IMS	W	CRK	363			
cab40761 (SEQ ID NO: 61)	..DQ	GYIN	SYME	ALG	GSND	GNLPP	LKE	L	T	L	I	S	D	W	T	KM	397

FIG. 6L



Debra A. Gordon, Ph.D.
Application No. 09/866,570
Filed: May 25, 2001
Our Ref. No. 4630-59094
For: NUCLEIC ACID MOLECULES ENCODING 10-
DEACETYL BACCATIN III O ACETYL TRANSFERASE AND
RELATED PRODUCTS
Inventor(s): Croteau *et al.*
Date of Deposit: September 8, 2003

TAX1 (SEQ ID NO: 28) G . F D E V D E G H G N A Y S V S P V Q Q Q S . . . A L A M Q N Y F L F L K P S K N K P D G I K I L M 414
TAX2 (SEQ ID NO: 26) G . F Y E A D E G H G N A Y N V S P M Q Q Q R E H E L A M Q N Y F L F L R S A K N M I D G I K I L M 410
aab61522 (SEQ ID NO: 59) E V Y . E A D E G H G K E L W V A S A R M S . Y K N L . . V A F I D T K E G D G I E A W I 300
aab61523 (SEQ ID NO: 62) G L Y . D A D E G H G K E Y W V T G R G T S H F K N L . . M L L I D T K D G E G I E A W I 408
aab95283 (SEQ ID NO: 63) E M Y . D N D E G H G R E Y A V R S G R S N K F D G K I S A . F P G R E G N G T V D L E V 459
aab97723 (SEQ ID NO: 64) E M Y E T A D E G H G K E Y Y A G P I . . D L R P T P Q V C V L L P Q G G V E S G N D Q S M V V C L 441
aac17079 (SEQ ID NO: 65) E V N . Q V D E G H G S E Y F G S Y H F P W G G S A G Y V M P M P S S V D D R D W M V Y L 544
aac18062 (SEQ ID NO: 66) E L Y . E V D E G H G I E R S L V D T T A V P F . . . G L I V L M D E A P A G D G I A V R A 412
aac27152 (SEQ ID NO: 67) G . F A E V E Y P H G K E K Y S C P V Y H R K D I V L L F P D I D G D S K G V Y V L A 431
aac99311 (SEQ ID NO: 68) E F Y . D V D E G H G K E I W V . C L F Q P Y I K N C V V M M D Y P F G D D Y G I E A I V 417
aad12025 (SEQ ID NO: 69) E . M Y G L D E G H G K E F Y T G P G T H D F D G D S L I L P D Q N E D G . S V I L A T 433
caa20531 (SEQ ID NO: 70) G W F G S M D E G H G N E P V N L R P L . T Q R E S T V H V G M I L K P S K S D P S M E G G V K V I M 435
caa64636 (SEQ ID NO: 71) G . F G E V D E G H G K A Y Y G G P A K G G V G A I P G V A S F Y I P F K . N K K G E N G I V V P I 424
caa94432 (SEQ ID NO: 72) G . V E N V D E G H G K A I F G G P T T T G A R I T R G L V S F C V P F M . N R N G E K G T A L S L 416
cab06427 (SEQ ID NO: 73) E . Y Q A M D E G H G S E T F F G I S N I F Y D G Q C F L I P S R D G D G . S M T L A I 428
cab10318 (SEQ ID NO: 74) E L Y . E A S E G H G D S E Y W V V G N V S P V L G N L . . A M L I D S K D G G I E A F V 418
cab10319 (SEQ ID NO: 60) E F Y . E V D E G S S E Y W V V G Y A S H T I Y D N M V G V V L I D S K E G D G V E A W I 407
cab40761 (SEQ ID NO: 61) E . F H N V G T G N G G E P A D Y M A P L C P P V P Q V A Y F M K N P K D A K G V L V R I 441

FIG. 6M



Debra A. Gordon, Ph.D.
Application No. 09/866,570
Filed: May 25, 2001
Our Ref. No. 4630-59094
For: NUCLEIC ACID MOLECULES ENCODING 10-
DEACETYLBACCATIN III O ACETYL TRANSFERASE AND
RELATED PRODUCTS
Inventor(s): Croteau *et al.*
Date of Deposit: September 8, 2003

439
440
331
436
482
461
572
433
450
439
451
461
460
455
445
446
435
458

TAX1 (SEQ ID NO: 28) FLPLSKMKSEKIEAMEAMK. KYVAKV.....
TAX2 (SEQ ID NO: 26) FMPLASMVKPKIEMEVTIN. KYVAKICNSKL.....
aab61522 (SEQ ID NO: 59) NLDQNDMSRFEADEELLRYVSSNPSPVSVS.....
aab61523 (SEQ ID NO: 62) TLTEEQMSLFECDQELLESASLNPPVLI.....
aab95283 (SEQ ID NO: 63) VLSPETMAGIESDGEFMRYYVTNK.....
aab97723 (SEQ ID NO: 64) CLPPTAVHTFTRLLSLNDHK.....
aac17079 (SEQ ID NO: 65) HLTGQQLRFIEEEASHVLPIDNDYDKI.....
aac18062 (SEQ ID NO: 66) CLSEHDMIQEQHHQLLSYVS.....
aac27152 (SEQ ID NO: 67) ALPSKEMSKFQHWFEETLC.....
aac99311 (SEQ ID NO: 68) SFEQEKMSAEKNEQLLQFVSN.....
aad12025 (SEQ ID NO: 69) CLQVAHMEAEKKKHFEYEDI.....
caa20531 (SEQ ID NO: 70) KLEPRDAMVEFKRREMATMKKLYFGDTN.....
caa64636 (SEQ ID NO: 71) CLPGEFAMETFVKELDGMVKVDAPL.. VNSNYAIIIRPAL.
caa94432 (SEQ ID NO: 72) CLPFPAMERFRANVHASLQVKQVVDVDSHMQTIQSASK
cab06427 (SEQ ID NO: 73) NLFSSHLSRFRKKYFYDE.....
cab10318 (SEQ ID NO: 74) TLPEENSSFEQNPELLAFATMNPVSLV.....
cab10319 (SEQ ID NO: 60) SLPEEDMSVFEVDDQELLAYAVLNPPVVA.....
cab40761 (SEQ ID NO: 61) GLDPRDVNGFSNHFLLDC.....

FIG. 6N



Debra A. Gordon, Ph.D.
Application No. 09/866,570
Filed: May 25, 2001
Our Ref. No. 4630-59094
For: NUCLEIC ACID MOLECULES ENCODING 10-
DEACETYLACCATIN III O ACETYL TRANSFERASE AND
RELATED PRODUCTS
Inventor(s): Croteau *et al.*
Date of Deposit: September 8, 2003

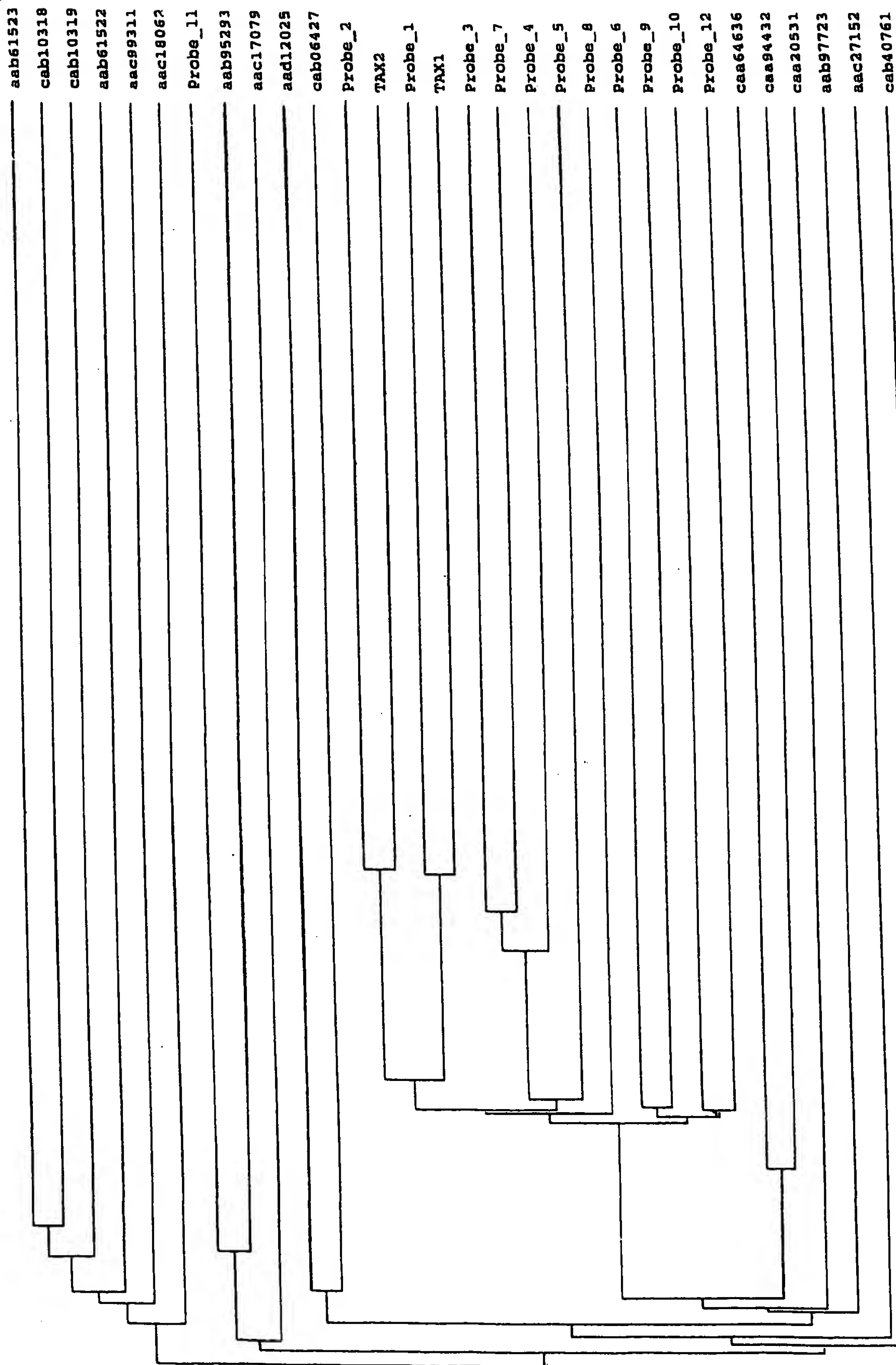


FIG. 7



Debra A. Gordon, Ph.D.
Application No. 09/866,570
Filed: May 25, 2001
Our Ref. No. 4630-59094
For: NUCLEIC ACID MOLECULES ENCODING 10-
DEACETYLBACCATIN III O ACETYL TRANSFERASE AND
RELATED PRODUCTS
Inventor(s): Croteau *et al.*
Date of Deposit: September 8, 2003

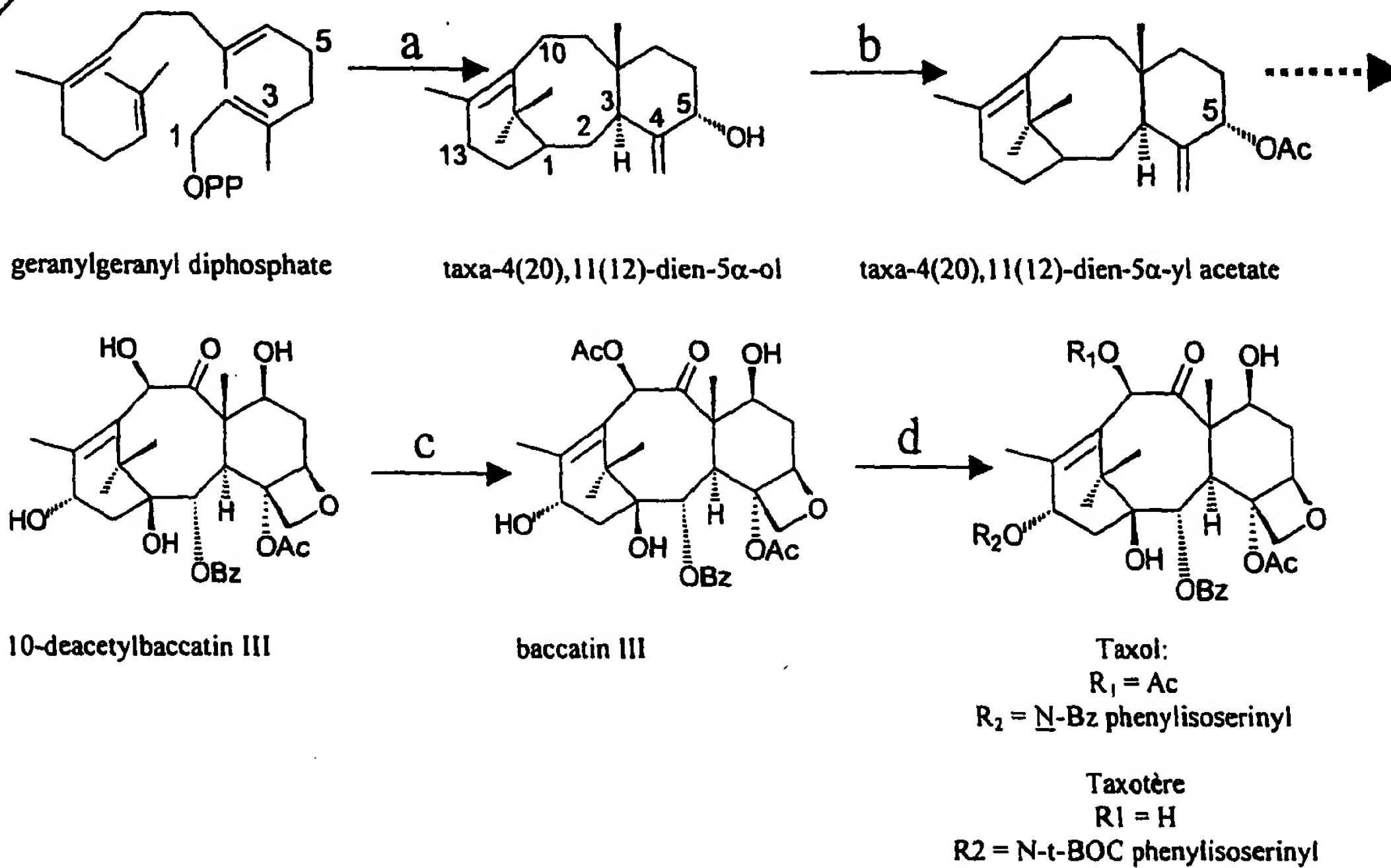


FIG. 8A

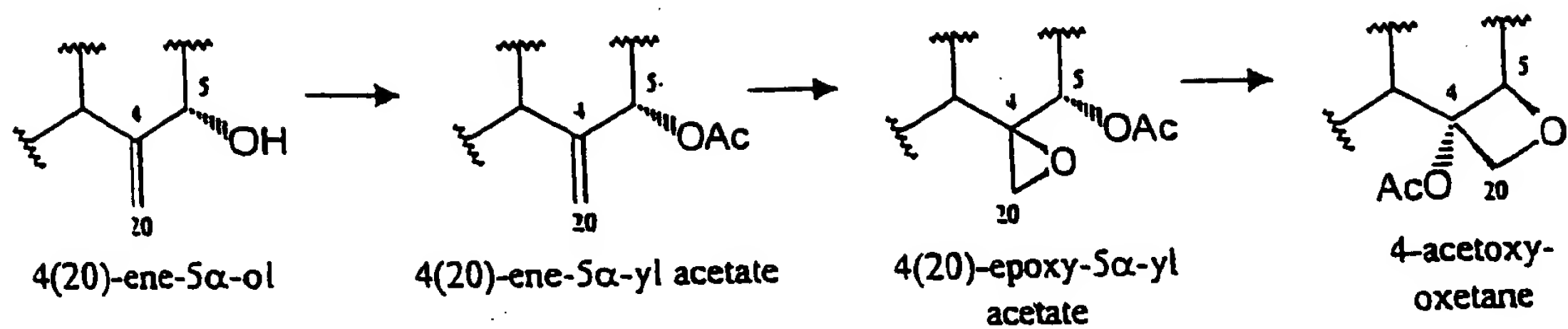


FIG. 8B



Debra A. Gordon, Ph.D.
Application No. 09/866,570
Filed: May 25, 2001
Our Ref. No. 4630-59094
For: NUCLEIC ACID MOLECULES ENCODING 10-
DEACETYL BACCATIN III O ACETYL TRANSFERASE AND
RELATED PRODUCTS
Inventor(s): Croteau *et al.*
Date of Deposit: September 8, 2003

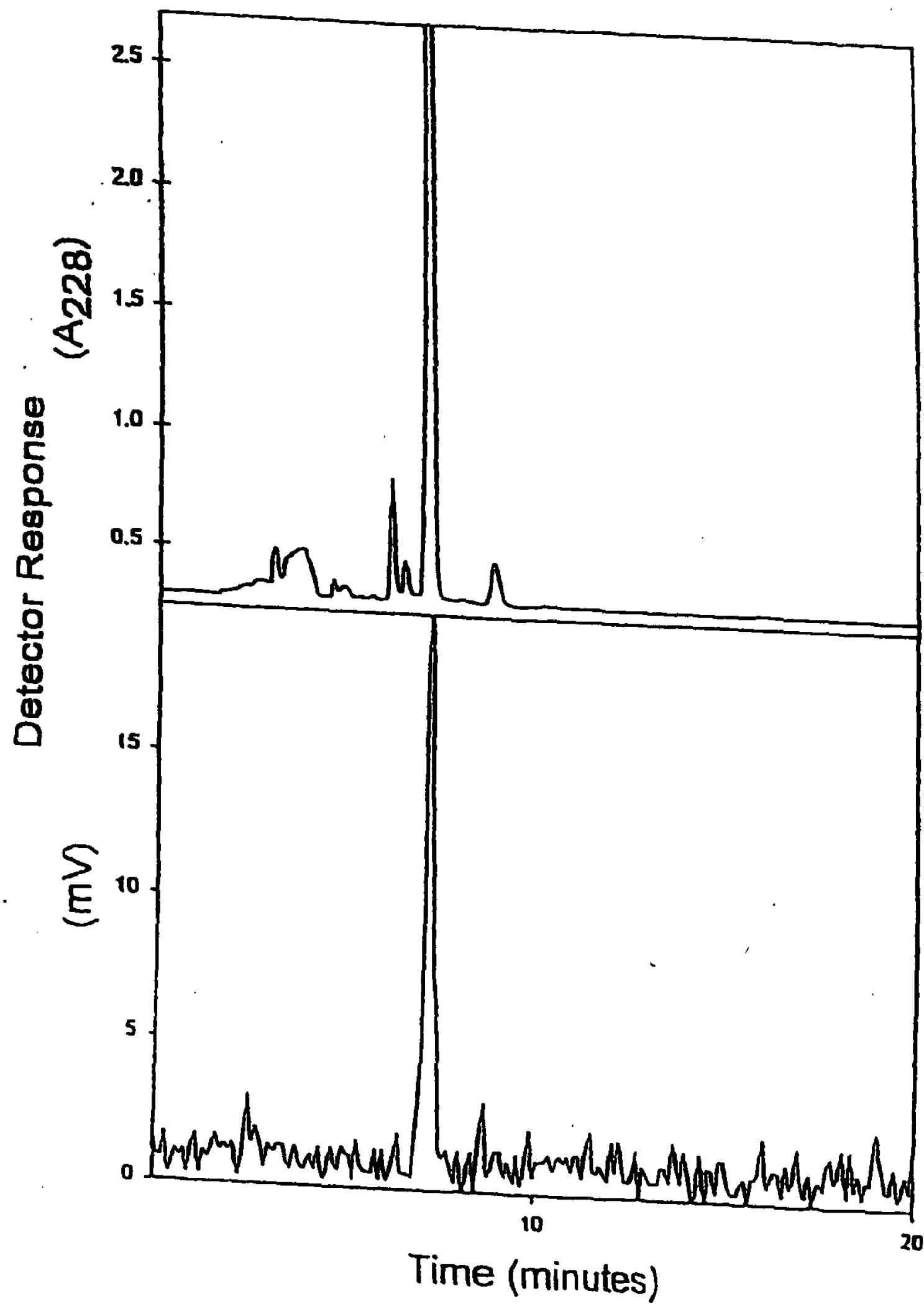


FIG. 9A

FIG. 9B



Debra A. Gordon, Ph.D.
Application No. 09/866,570
Filed: May 25, 2001
Our Ref. No. 4630-59094
For: NUCLEIC ACID MOLECULES ENCODING 10-
DEACETYLBACCATIN III O ACETYL TRANSFERASE AND
RELATED PRODUCTS
Inventor(s): Croteau *et al.*
Date of Deposit: September 8, 2003

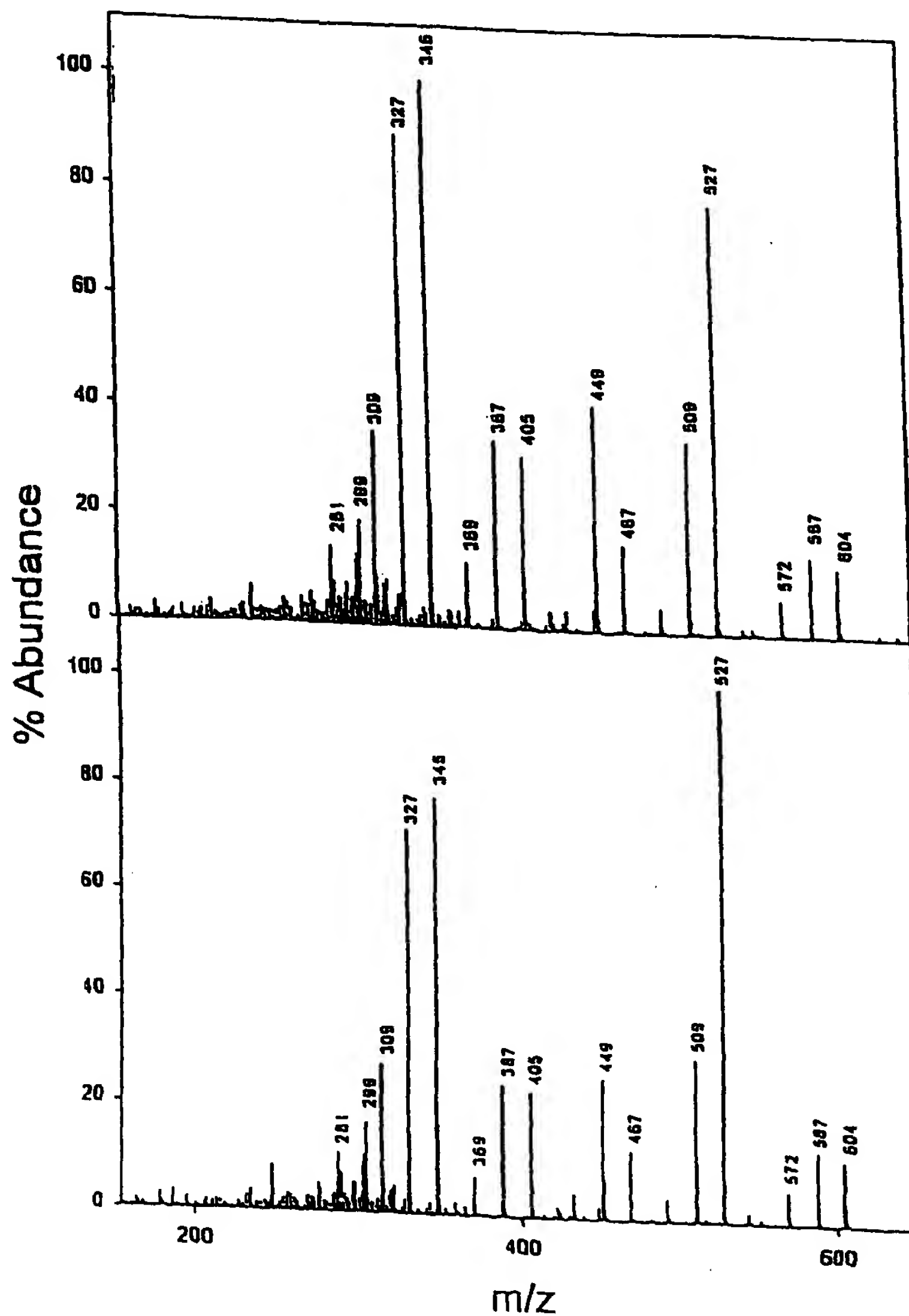


FIG. 10A

FIG. 10B